



## 4. Contents

The Time Series section has been added to the fourth edition of this publication in response to numerous requests for data showing change in S&T performance over time. Ten metrics have been selected for inclusion with the goal of presenting ten years of comparable data for each. Selection of these metrics was based upon several criteria.

The first basis for the metric selection process was to choose those metrics that would have the greatest value for state-level economic development planning. When individual metrics showed similar data availability and comparability, the final selection was made on the basis of the states' ability to influence a particular metric value. This approach was adopted to create a section that would provide the longitudinal data of greatest use at the state level and be efficient in the presentation of these data.

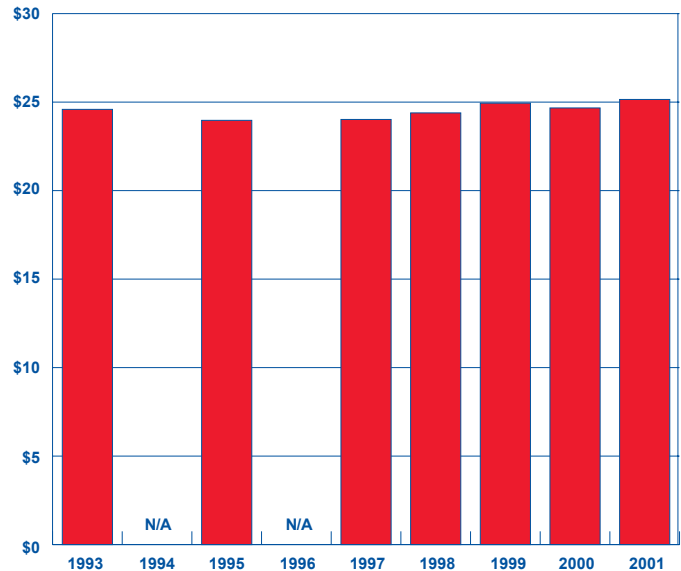
The second involved data availability and comparability. Not all sources report information annually or consistently, so performance covering a decade may contain fewer than ten annual data points. In addition, the basis for reporting the data may have changed during the decade making the data from the early years of the decade not directly comparable with that from later years. In selecting metrics for inclusion in this section, an attempt was made to use metrics with the most comprehensive and internally consistent data. In some cases, it was necessary to accept compromises involving less than a full decade of data or minor changes in the definition of the metric. In the latter case, these changes were noted to make the reader aware of them. Metrics for which data were initially collected based upon Standard Industrial Classification codes and later shifted to North American Industry Classification System were not included in this section because of data comparability considerations.

# Total R&D Performed per \$1,000 of GSP

## OVERALL NATIONAL TREND

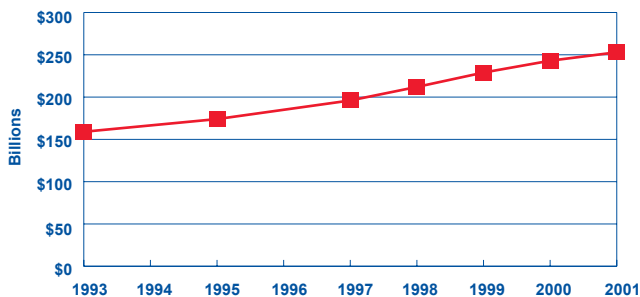
This indicator provides a measure of the total amount of R&D being performed within a state relative to the size of the state's economy. It includes R&D performed by industry, government, universities, and non-profit organizations.

At a national level, the value of this indicator remained fairly constant between 1993 and 2001. The average annual growth rate of this indicator for the nation was 0.3% during this eight-year period. While the majority of states showed increases in the amount of R&D performed relative to the size of the state's economy, sixteen showed decreases. The states showing the largest dollar value of R&D performed per \$1,000 of GSP in 2001 were New Mexico, Maryland, and Massachusetts. The states that showed the largest absolute increase in R&D performed relative to the size of the state's economy between 1993 and 2001 were Oregon, Rhode Island, and New Hampshire.



## NUMERATOR

### Total R&D Performed



The expenditures for total R&D performed throughout the United States increased at an average annual rate of 6.0% as they rose from a value of \$159 billion in 1993 to \$253 billion in 2001. All states, with the exception of Hawaii, reported an increase in the expenditures for R&D being performed within their borders during this period.

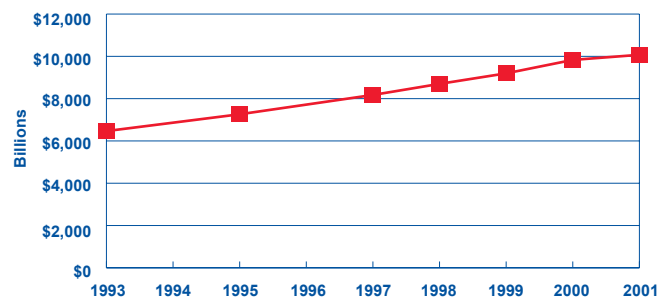
The largest dollar value of R&D was performed in the states of California, Michigan, and Massachusetts in 2001. The largest dollar increases in R&D occurred in the states of California, Texas, and Massachusetts during the 1993–2001 period. The largest percentage increases were found in Oregon, North Dakota, and New Hampshire during this same period.

## DENOMINATOR

### Gross State Product

GSP was selected as the measure of the size of a state's economy. The combined GSPs of the 50 states showed a steady increase during the last decade rising from \$6.5 trillion in 1993 to \$10.1 trillion in 2001 for an average annual growth rate of 5.7%.

Between 1993 and 2001, the states with the largest GSPs were California, New York, and Texas. The states showing the largest percentage increases in the growth of their GSP during this period were Nevada, Arizona, and Colorado.



### Total R&D Performed per \$1,000 of GSP: 1993, 1995, 1997 – 2001

State	1993	1995	1997	1998	1999	2000	2001
Alabama	\$23.29	\$17.60	\$15.70	\$17.56	\$15.30	\$14.50	\$18.53
Alaska	\$5.61	\$6.59	\$5.11	NA	\$5.95	\$6.98	\$10.37
Arizona	\$18.80	\$18.71	\$19.71	\$17.44	\$35.21	\$20.25	\$18.97
Arkansas	\$6.38	\$6.12	\$4.59	\$4.62	\$5.82	\$6.80	\$6.65
California	\$39.77	\$38.92	\$39.87	\$39.03	\$39.53	\$41.42	\$37.49
Colorado	\$30.60	\$24.77	\$24.74	\$32.64	\$27.63	\$24.98	\$24.82
Connecticut	\$26.03	\$36.33	\$25.59	\$24.94	\$29.77	\$30.19	\$31.96
Delaware	\$52.41	\$41.65	\$34.82	\$78.17	\$38.71	\$41.13	\$32.50
Florida	\$11.56	\$15.15	\$12.28	\$11.49	\$9.64	\$9.89	\$11.48
Georgia	\$9.16	\$10.38	\$9.64	\$9.78	\$10.70	\$9.46	\$10.79
Hawaii	\$10.47	\$4.54	\$7.13	\$6.14	\$6.65	\$6.85	\$8.19
Idaho	\$20.98	\$33.66	\$43.20	\$36.30	\$37.86	\$39.00	\$34.11
Illinois	\$21.36	\$20.82	\$20.07	\$20.87	\$22.04	\$27.38	\$22.02
Indiana	\$19.47	\$21.30	\$19.33	\$17.54	\$15.24	\$17.14	\$22.30
Iowa	\$14.37	\$19.40	\$11.99	\$12.68	\$11.72	\$11.35	\$14.56
Kansas	\$7.94	\$11.92	\$18.50	\$19.81	\$19.39	\$16.80	\$18.32
Kentucky	\$5.30	\$6.49	\$5.18	\$5.99	\$8.61	\$7.39	\$7.90
Louisiana	\$4.91	\$3.77	\$4.49	\$4.42	\$4.67	\$4.32	\$5.56
Maine	\$4.49	\$12.34	\$4.89	\$4.94	\$6.59	\$8.79	\$10.38
Maryland	\$59.56	\$49.22	\$47.82	\$48.87	\$46.52	\$46.66	\$58.35
Massachusetts	\$54.05	\$50.49	\$49.64	\$55.44	\$47.28	\$45.94	\$50.95
Michigan	\$48.35	\$52.23	\$50.06	\$46.58	\$60.24	\$58.36	\$48.47
Minnesota	\$25.32	\$23.42	\$23.67	\$23.42	\$22.77	\$23.10	\$26.64
Mississippi	\$6.84	\$5.77	\$6.29	\$5.94	\$7.42	\$7.75	\$9.69
Missouri	\$14.95	\$17.90	\$11.72	\$11.43	\$11.90	\$14.58	\$14.05
Montana	\$5.60	\$6.79	\$10.54	\$9.55	\$8.20	\$7.83	\$10.56
Nebraska	\$7.62	\$7.62	\$5.59	\$6.13	\$7.80	\$7.89	\$10.17
Nevada	\$5.47	\$9.01	\$8.72	\$8.94	\$6.58	\$5.00	\$5.60
New Hampshire	\$15.95	\$18.45	\$21.31	\$33.06	\$28.97	\$16.36	\$33.63
New Jersey	\$37.21	\$33.63	\$40.23	\$35.88	\$31.72	\$36.74	\$31.18
New Mexico	\$74.15	\$78.15	\$63.30	\$62.52	\$66.61	\$58.66	\$71.22
New York	\$19.91	\$18.33	\$18.55	\$19.11	\$18.97	\$16.98	\$17.45
North Carolina	\$16.26	\$16.40	\$21.06	\$18.90	\$20.21	\$18.49	\$21.13
North Dakota	\$7.12	\$6.72	\$7.29	\$7.00	\$9.84	\$7.85	\$24.27
Ohio	\$24.52	\$17.97	\$21.89	\$20.11	\$22.62	\$20.67	\$23.52
Oklahoma	\$8.20	\$7.56	\$8.11	\$6.24	\$7.78	\$7.25	\$9.29
Oregon	\$11.09	\$13.42	\$15.59	\$18.56	\$17.89	\$17.43	\$45.37
Pennsylvania	\$28.73	\$21.71	\$23.64	\$24.00	\$28.13	\$24.64	\$27.32
Rhode Island	\$20.50	\$34.88	\$35.37	\$54.38	\$51.77	\$41.59	\$42.75
South Carolina	\$9.39	\$11.47	\$10.89	\$9.76	\$9.17	\$10.04	\$12.56
South Dakota	\$3.61	\$2.99	\$3.61	\$2.91	\$2.74	\$3.62	\$5.80
Tennessee	\$10.13	\$10.19	\$10.32	\$15.43	\$13.41	\$11.60	\$14.53
Texas	\$15.39	\$16.32	\$15.59	\$16.80	\$18.31	\$15.65	\$16.65
Utah	\$19.56	\$24.72	\$25.08	\$25.30	\$23.54	\$19.88	\$21.23
Vermont	\$26.06	\$22.05	\$20.24	\$10.77	\$22.65	\$25.68	\$22.07
Virginia	\$17.21	\$20.63	\$19.50	\$21.63	\$21.12	\$19.44	\$20.30
Washington	\$39.23	\$34.65	\$43.05	\$44.08	\$39.99	\$48.22	\$46.52
West Virginia	\$8.67	\$13.08	\$11.17	\$10.78	\$10.82	\$11.17	\$11.00
Wisconsin	\$15.49	\$16.65	\$15.22	\$15.86	\$15.55	\$15.56	\$18.32
Wyoming	\$4.46	\$5.82	\$5.35	\$3.98	\$3.87	\$3.19	\$4.04
Dist of Columbia	\$54.58	\$64.62	\$54.76	\$49.98	\$45.32	\$38.29	\$39.44
Puerto Rico	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>50 States</b>	<b>\$24.59</b>	<b>\$23.97</b>	<b>\$24.02</b>	<b>\$24.39</b>	<b>\$24.94</b>	<b>\$24.67</b>	<b>\$25.15</b>

#### Data Sources

**Expenditures for Total R&D Performed:** National Science Foundation, Division of Science Resources Statistics.

**Gross State Product:** U.S. Department of Commerce, Bureau of Economic Analysis.

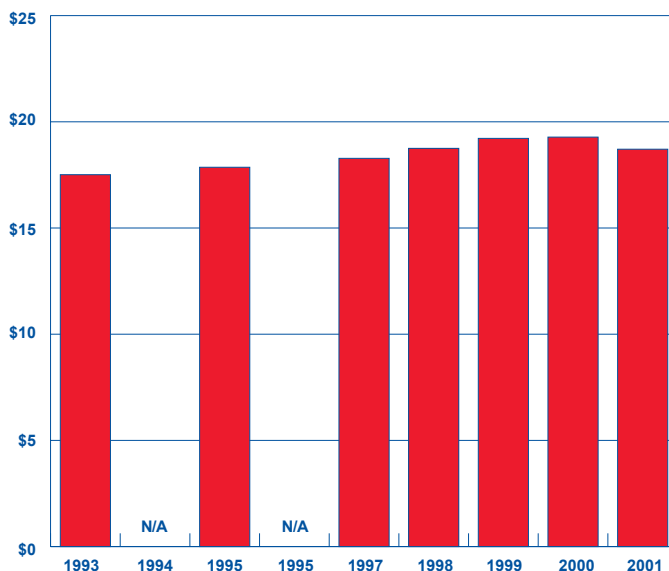
# Expenditures for Industry-performed R&D per \$1,000 of GSP

## OVERALL NATIONAL TREND

This indicator provides a measure of the R&D performed by the industries located within a state relative to the size of that state's economy. It includes funding from all sources, such as federal awards and contracts, as well as self-sponsored R&D performed by industry.

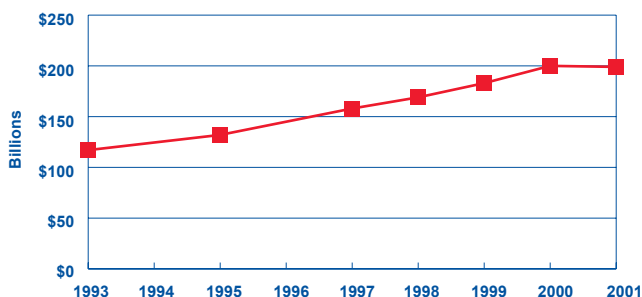
On a national level, the value of this indicator increased at an average annual rate of 0.8% during the 1993–2001 period. Ten states showed declines, 34 showed increases, and six contained suppressed data. The states with the largest dollar value of industry-performed R&D relative to the size of their economy were Michigan, Oregon, and Massachusetts. The states showing the greatest percentage increase in industry-performed R&D relative to the size of their economy during the 1993–2001 period were Oregon, Rhode Island, and Alaska.

Data on the value of industry-performed R&D were collected for only odd-numbered years until 1997 when annual collection of this data was initiated. Due to statistical anomalies and insufficient sample sizes in some states large variations may occur from year to year.



## NUMERATOR

### Industry R&D Performed



Industry-performed R&D in the United States has shown an average annual increase of 6.8% rising from \$117 billion in 1993 to \$199 billion in 2001. Excluding the six states for which data were suppressed in 1993, all states with the exception of Michigan and Hawaii showed an increase in the absolute amount of industrial R&D being performed during this period.

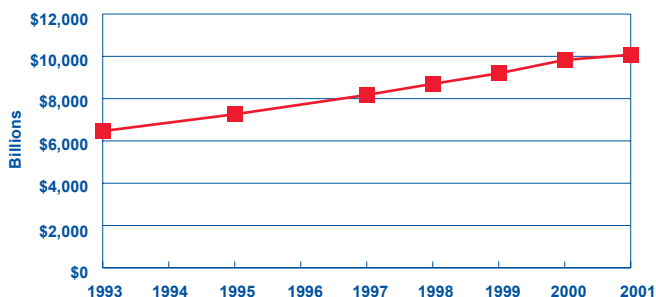
The states in which the largest expenditures were made for industrial R&D in 2001 were California, Michigan, and Massachusetts. The states showing the largest dollar increase in industrial R&D between 1993 and 2001 were California, Massachusetts, and Texas. The states with the largest percentage increase in industrial R&D expenditures during this period were Oregon, Rhode Island, and New Hampshire.

## DENOMINATOR

### Gross State Product

GSP was selected as the measure of the size of a state's economy. The combined GSPs of the 50 states showed a steady increase during the last decade rising from \$6.5 trillion in 1993 to \$10.1 trillion in 2001 for an average annual growth rate of 5.7%.

Between 1993 and 2001, the states with the largest GSPs were California, New York, and Texas. The states showing the largest percentage increases in the growth of their GSP during this period were Nevada, Arizona, and Colorado.



### Expenditures for Industry-performed R&D per \$1,000 of GSP: 1993, 1995, 1997 – 2001

State	1993	1995	1997	1998	1999	2000	2001
Alabama	\$6.59	\$7.18	\$5.65	\$7.70	\$7.15	\$6.88	\$7.45
Alaska	\$0.61	\$1.21	\$0.90	\$1.50	\$3.21	\$1.71	\$2.39
Arizona	\$12.15	\$12.97	\$15.16	\$13.55	\$14.59	\$14.22	\$14.05
Arkansas	\$3.79	\$3.36	\$2.00	\$3.47	\$5.02	\$5.98	\$3.75
California	\$25.92	\$31.01	\$32.54	\$29.20	\$30.49	\$32.68	\$29.74
Colorado	\$21.01	\$17.11	\$17.35	\$22.74	\$21.44	\$18.56	\$17.74
Connecticut	\$20.64	\$32.92	\$22.33	\$23.45	\$27.82	\$25.52	\$28.20
Delaware	\$38.32	\$39.06	\$32.27	\$41.48	\$37.32	\$39.41	\$30.41
Florida	\$7.82	\$11.89	\$8.84	\$7.86	\$7.87	\$8.00	\$7.64
Georgia	\$4.60	\$5.77	\$5.40	\$6.34	\$6.89	\$7.31	\$6.38
Hawaii	\$7.02	\$0.38	\$2.26	\$1.40	\$1.67	\$2.18	\$2.12
Idaho	\$30.14	\$30.45	\$40.19	\$35.53	\$35.83	\$37.09	\$23.97
Illinois	\$15.83	\$16.07	\$15.61	\$17.29	\$18.38	\$18.00	\$17.31
Indiana	\$16.28	\$18.33	\$16.43	\$16.59	\$15.79	\$15.22	\$18.87
Iowa	\$8.05	\$13.92	\$7.08	\$9.03	\$8.53	\$8.50	\$8.98
Kansas	\$4.80	\$8.88	\$15.56	\$18.06	\$18.05	\$15.70	\$14.90
Kentucky	\$3.49	\$4.94	\$3.54	\$5.63	\$6.91	\$6.50	\$5.29
Louisiana	\$1.11	\$0.54	\$1.39	\$3.08	\$3.85	\$2.51	\$2.13
Maine	N/A	\$10.22	\$2.73	\$4.25	\$6.10	\$7.03	\$6.64
Maryland	\$10.25	\$7.71	\$9.21	\$11.61	\$11.62	\$11.96	\$18.88
Massachusetts	\$33.92	\$37.56	\$37.12	\$42.95	\$37.34	\$37.43	\$39.05
Michigan	\$84.55	\$48.74	\$46.54	\$42.82	\$54.08	\$54.03	\$44.57
Minnesota	\$20.28	\$19.99	\$20.46	\$20.66	\$21.55	\$21.34	\$23.16
Mississippi	\$1.08	\$1.21	\$1.24	\$2.97	\$3.49	\$3.65	\$3.27
Missouri	\$11.19	\$14.53	\$8.28	\$9.21	\$9.85	\$11.17	\$9.87
Montana	N/A	\$0.97	\$4.87	\$3.15	\$4.47	\$3.58	\$3.09
Nebraska	\$2.41	\$3.40	\$1.44	\$3.80	\$4.06	\$6.02	\$5.38
Nevada	\$1.63	\$6.52	\$6.41	\$7.46	\$7.05	\$5.74	\$3.66
New Hampshire	\$8.98	\$14.57	\$17.40	\$28.08	\$26.68	\$15.24	\$28.38
New Jersey	\$32.46	\$30.21	\$36.90	\$35.05	\$30.54	\$29.60	\$27.82
New Mexico	N/A	\$34.65	\$27.39	\$29.90	\$27.47	\$22.87	\$4.16
New York	\$15.60	\$14.48	\$14.98	\$14.31	\$16.48	\$14.56	\$13.17
North Carolina	\$11.17	\$11.44	\$16.20	\$14.44	\$13.94	\$15.86	\$15.01
North Dakota	NA	\$0.83	\$2.07	\$2.70	\$5.56	\$4.47	\$18.24
Ohio	\$17.23	\$13.53	\$17.18	\$16.56	\$18.27	\$16.85	\$17.91
Oklahoma	\$4.60	\$4.12	\$5.39	\$4.49	\$6.58	\$5.10	\$5.78
Oregon	\$6.52	\$9.14	\$11.30	\$13.07	\$12.76	\$12.63	\$41.33
Pennsylvania	\$16.14	\$16.72	\$19.03	\$20.25	\$19.66	\$21.21	\$21.96
Rhode Island	\$6.52	\$20.23	\$23.94	\$43.19	\$41.29	\$32.33	\$30.70
South Carolina	\$6.07	\$8.51	\$8.20	\$9.82	\$8.63	\$9.44	\$8.00
South Dakota	N/A	\$1.04	\$1.32	\$1.94	\$2.62	\$3.80	\$3.60
Tennessee	\$6.58	\$7.33	\$7.18	\$15.04	\$12.91	\$9.27	\$8.23
Texas	\$10.08	\$12.09	\$11.94	\$14.01	\$12.76	\$13.61	\$12.88
Utah	\$7.27	\$17.35	\$18.65	\$18.94	\$16.41	\$15.53	\$15.19
Vermont	N/A	\$17.75	\$15.86	\$7.00	\$20.17	\$21.48	\$17.68
Virginia	\$6.13	\$8.35	\$8.33	\$11.14	\$11.02	\$10.29	\$10.83
Washington	\$33.10	\$28.39	\$37.72	\$36.83	\$34.02	\$37.76	\$38.98
West Virginia	\$3.10	\$6.69	N/A	\$8.58	\$8.66	\$8.03	\$4.97
Wisconsin	\$10.84	\$12.76	\$11.52	\$12.23	\$13.30	\$13.96	\$13.92
Wyoming	\$1.06	\$1.68	\$1.72	\$1.22	\$3.82	\$1.94	\$1.39
Dist of Columbia	\$11.05	\$13.88	N/A	\$11.47	\$4.84	\$3.27	\$3.75
Puerto Rico	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>United States<sup>1</sup></b>	<b>\$17.51</b>	<b>\$17.86</b>	<b>\$18.28</b>	<b>\$18.75</b>	<b>\$19.22</b>	<b>\$19.28</b>	<b>\$18.71</b>

<sup>1</sup> Includes the 50 states and the District of Columbia

#### Data Sources

**Expenditures for Industry-Performed R&D:** National Science Foundation, Division of Science Resources Statistics.

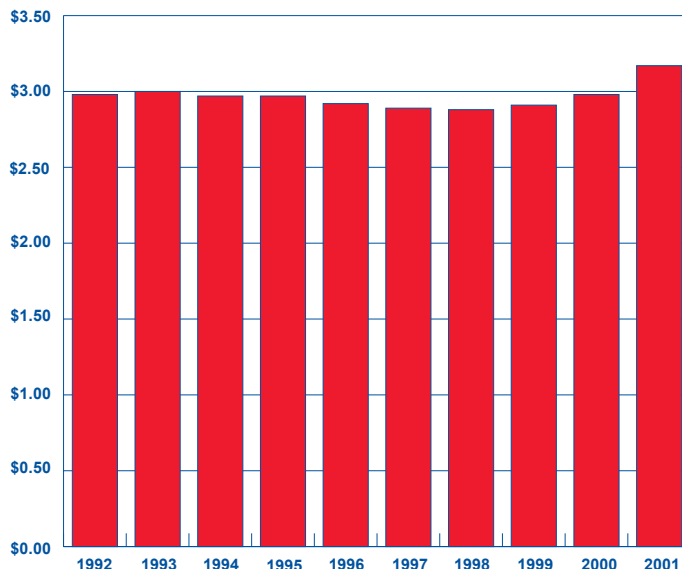
**Gross State Product:** U.S. Department of Commerce, Bureau of Economic Analysis.

# Expenditures for University-performed R&D per \$1,000 of GSP

## OVERALL NATIONAL TREND

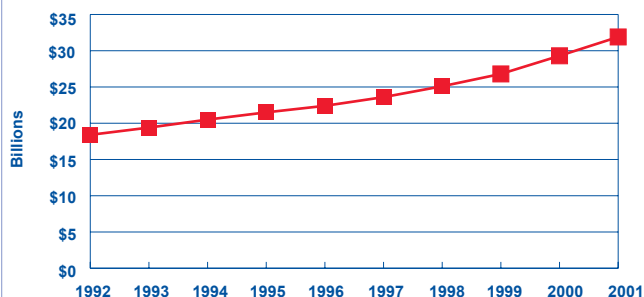
This indicator provides a measure of the ability of a state's universities to attract R&D funding from federal, state, and industrial sources relative to the size of that state's economy. Since a significant portion of this funding is based upon competitive awards, the indicator could be considered an indirect reflection of the robustness of a state's university-performed R&D and its ability to affect the state economy.

Throughout the United States, the value of this indicator remained fairly constant between 1992 and 2000 before rising significantly in 2001. While many states reported positive changes between 1992 and 2001, a significant number of states registered declines. The states of Maryland, Massachusetts, and New Mexico had the highest rankings during this period. The states that showed the largest percentage increase in the value of this indicator between 1992 and 2001 were Maine, Kentucky, and Hawaii.



## NUMERATOR

### University R&D Performed



For this indicator, university-performed R&D refers only to R&D conducted at doctorate degree-granting institutions. The amount of university-performed R&D in the United States rose steadily from \$18 billion to nearly \$32 billion during this decade, for an average annual growth rate of 6.3%. Academic institutions in all states experienced an increase in expenditures for university-performed R&D during this time.

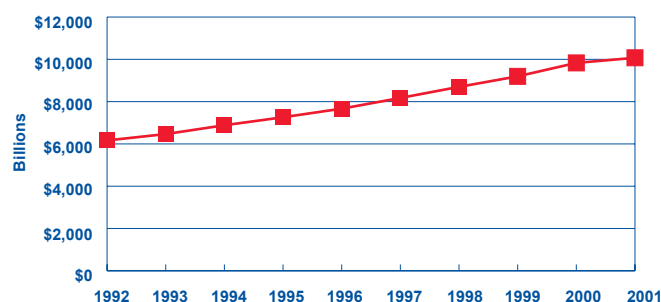
Academic institutions in the states of California, New York, and Texas spent the most on university-performed R&D each year between 1992 and 2001. Institutions in these three states also experienced the largest dollar increases in university-performed R&D expenditures. The highest rate of increase in expenditures for university-performed R&D between 1992 and 2001 occurred in the states of Maine, Kentucky, and Mississippi.

## DENOMINATOR

### Gross State Product

Gross state product (GSP) was selected as the measure of the size of a state's economy. The combined GSPs of the 50 states showed a steady increase during the last decade rising from \$6.2 trillion in 1992 to \$10.1 trillion in 2001 for an average annual growth rate of 5.6%.

Between 1992 and 2001, the states with the largest GSPs were California, New York, and Texas. The states showing the largest percentage increases in the growth of their GSP during this period were Nevada, Arizona, and Colorado.





### Expenditures for University-performed R&D per \$1,000 of GSP: 1992 – 2001

State	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Alabama	\$3.19	\$3.33	\$3.40	\$3.43	\$3.44	\$3.54	\$3.67	\$3.52	\$3.50	\$3.57
Alaska	\$3.03	\$2.90	\$3.29	\$2.91	\$2.77	\$2.67	\$3.07	\$3.48	\$3.64	\$3.86
Arizona	\$3.79	\$3.63	\$3.58	\$3.64	\$3.33	\$3.08	\$3.05	\$3.04	\$3.03	\$3.12
Arkansas	\$1.38	\$1.59	\$1.60	\$1.65	\$1.66	\$1.74	\$1.83	\$1.65	\$1.86	\$1.97
California	\$2.82	\$2.81	\$2.80	\$2.81	\$2.89	\$2.92	\$2.95	\$2.94	\$2.98	\$3.18
Colorado	\$3.55	\$3.54	\$3.62	\$3.61	\$3.47	\$3.30	\$3.46	\$3.29	\$3.17	\$3.25
Connecticut	\$3.27	\$3.38	\$3.26	\$3.18	\$3.13	\$2.91	\$2.82	\$2.79	\$2.87	\$2.97
Delaware	\$2.12	\$2.21	\$2.02	\$1.93	\$1.87	\$2.08	\$2.14	\$2.12	\$2.01	\$1.91
Florida	\$1.50	\$1.60	\$1.60	\$1.75	\$1.74	\$1.80	\$1.70	\$1.76	\$1.79	\$1.99
Georgia	\$3.20	\$3.18	\$3.23	\$3.29	\$3.24	\$3.25	\$3.12	\$3.00	\$3.09	\$3.24
Hawaii	\$2.26	\$2.04	\$1.91	\$2.11	\$2.97	\$3.12	\$3.76	\$3.86	\$3.79	\$3.59
Idaho	\$2.30	\$2.14	\$2.23	\$2.16	\$2.31	\$2.15	\$2.22	\$1.97	\$1.91	\$2.24
Illinois	\$2.40	\$2.39	\$2.32	\$2.26	\$2.29	\$2.31	\$2.39	\$2.46	\$2.48	\$2.67
Indiana	\$2.29	\$2.30	\$2.37	\$2.53	\$2.51	\$2.46	\$2.41	\$2.53	\$2.65	\$2.98
Iowa	\$4.40	\$4.76	\$4.56	\$4.50	\$4.32	\$4.18	\$4.31	\$4.33	\$4.64	\$4.80
Kansas	\$2.47	\$2.64	\$2.71	\$2.83	\$2.67	\$2.71	\$2.76	\$2.90	\$3.04	\$3.06
Kentucky	\$1.43	\$1.51	\$1.45	\$1.47	\$1.55	\$1.56	\$1.86	\$2.06	\$2.28	\$2.38
Louisiana	\$2.67	\$2.67	\$2.62	\$2.84	\$2.63	\$2.69	\$2.78	\$2.71	\$2.66	\$2.84
Maine	\$0.95	\$0.98	\$1.11	\$1.14	\$1.20	\$1.09	\$1.03	\$1.22	\$1.51	\$1.71
Maryland	\$9.22	\$9.08	\$8.71	\$8.61	\$8.52	\$8.23	\$8.03	\$7.94	\$8.08	\$8.40
Massachusetts	\$6.15	\$6.31	\$6.04	\$5.83	\$5.61	\$5.69	\$5.50	\$5.35	\$5.19	\$5.41
Michigan	\$3.15	\$3.14	\$2.96	\$3.05	\$3.05	\$3.01	\$2.99	\$2.93	\$3.05	\$3.44
Minnesota	\$2.83	\$2.88	\$2.54	\$2.55	\$2.41	\$2.39	\$2.21	\$2.17	\$2.21	\$2.46
Mississippi	\$2.23	\$2.23	\$2.23	\$2.07	\$2.20	\$2.12	\$2.36	\$2.39	\$3.13	\$3.46
Missouri	\$2.77	\$2.88	\$2.88	\$2.85	\$2.76	\$2.95	\$2.93	\$3.23	\$3.44	\$3.71
Montana	\$2.96	\$2.98	\$3.13	\$3.81	\$3.96	\$3.73	\$3.63	\$3.88	\$4.37	\$4.56
Nebraska	\$3.53	\$3.55	\$3.52	\$3.60	\$3.32	\$3.60	\$3.63	\$3.84	\$3.74	\$4.24
Nevada	\$1.96	\$1.98	\$1.76	\$1.76	\$1.56	\$1.49	\$1.32	\$1.32	\$1.41	\$1.46
New Hampshire	\$3.31	\$3.62	\$3.45	\$2.87	\$2.81	\$2.87	\$2.89	\$2.93	\$3.19	\$4.17
New Jersey	\$1.61	\$1.52	\$1.57	\$1.62	\$1.59	\$1.54	\$1.53	\$1.57	\$1.58	\$1.66
New Mexico	\$5.54	\$5.03	\$4.59	\$5.46	\$4.84	\$4.58	\$4.66	\$4.51	\$4.51	\$4.91
New York	\$2.78	\$2.82	\$2.88	\$2.90	\$2.73	\$2.68	\$2.62	\$2.73	\$2.81	\$2.93
North Carolina	\$3.52	\$3.65	\$3.69	\$3.61	\$3.63	\$3.62	\$3.62	\$3.76	\$3.72	\$4.04
North Dakota	\$4.14	\$4.21	\$4.01	\$4.10	\$4.53	\$3.53	\$3.34	\$3.61	\$3.63	\$4.45
Ohio	\$2.21	\$2.27	\$2.21	\$2.17	\$2.26	\$2.34	\$2.32	\$2.31	\$2.47	\$2.66
Oklahoma	\$2.73	\$2.66	\$2.61	\$2.66	\$2.69	\$2.35	\$2.51	\$2.76	\$2.74	\$2.68
Oregon	\$3.18	\$3.23	\$3.23	\$3.19	\$3.01	\$2.98	\$3.04	\$2.96	\$2.83	\$3.03
Pennsylvania	\$3.52	\$3.54	\$3.58	\$3.57	\$3.61	\$3.57	\$3.65	\$3.62	\$3.85	\$4.08
Rhode Island	\$4.26	\$4.37	\$4.18	\$3.87	\$4.02	\$3.81	\$3.63	\$3.79	\$3.59	\$3.86
South Carolina	\$2.28	\$2.35	\$2.41	\$2.53	\$2.42	\$2.29	\$2.38	\$2.44	\$2.54	\$3.04
South Dakota	\$1.20	\$1.36	\$1.26	\$1.17	\$1.31	\$1.24	\$1.22	\$1.17	\$1.16	\$1.33
Tennessee	\$2.34	\$2.32	\$2.36	\$2.25	\$2.23	\$2.17	\$2.10	\$2.14	\$2.25	\$2.29
Texas	\$3.02	\$3.09	\$3.06	\$2.89	\$2.76	\$2.64	\$2.61	\$2.65	\$2.71	\$2.88
Utah	\$5.96	\$5.07	\$4.66	\$4.37	\$4.04	\$4.33	\$4.22	\$4.36	\$4.50	\$4.80
Vermont	\$3.94	\$3.79	\$3.77	\$3.87	\$3.66	\$3.84	\$3.55	\$3.73	\$3.50	\$3.95
Virginia	\$2.29	\$2.37	\$2.42	\$2.37	\$2.06	\$2.15	\$2.14	\$2.17	\$2.21	\$2.18
Washington	\$3.05	\$3.09	\$3.07	\$3.21	\$3.12	\$2.90	\$2.78	\$2.78	\$2.91	\$3.13
West Virginia	\$1.72	\$1.71	\$1.70	\$1.47	\$1.48	\$1.66	\$1.60	\$1.57	\$1.77	\$1.86
Wisconsin	\$3.73	\$3.72	\$3.67	\$3.54	\$3.44	\$3.36	\$3.34	\$3.57	\$3.77	\$4.05
Wyoming	\$2.23	\$2.31	\$2.67	\$2.71	\$2.55	\$2.94	\$2.95	\$2.77	\$2.25	\$2.04
Dist of Columbia	\$3.00	\$3.12	\$3.19	\$3.75	\$4.15	\$4.23	\$4.37	\$3.94	\$4.02	\$3.46
Puerto Rico	\$2.16	\$1.90	\$1.93	\$2.45	\$2.40	\$2.36	\$2.49	\$2.36	\$1.80	\$1.44
<b>50 States</b>	<b>\$2.98</b>	<b>\$3.00</b>	<b>\$2.97</b>	<b>\$2.97</b>	<b>\$2.92</b>	<b>\$2.89</b>	<b>\$2.88</b>	<b>\$2.91</b>	<b>\$2.98</b>	<b>\$3.17</b>

#### Data Sources

**Expenditures for University-Performed R&D:** National Science Foundation, Division of Science Resources Statistics.

**Gross State Product:** U.S. Department of Commerce, Bureau of Economic Analysis; Puerto Rico Planning Board, Program of Economic and Social Planning.

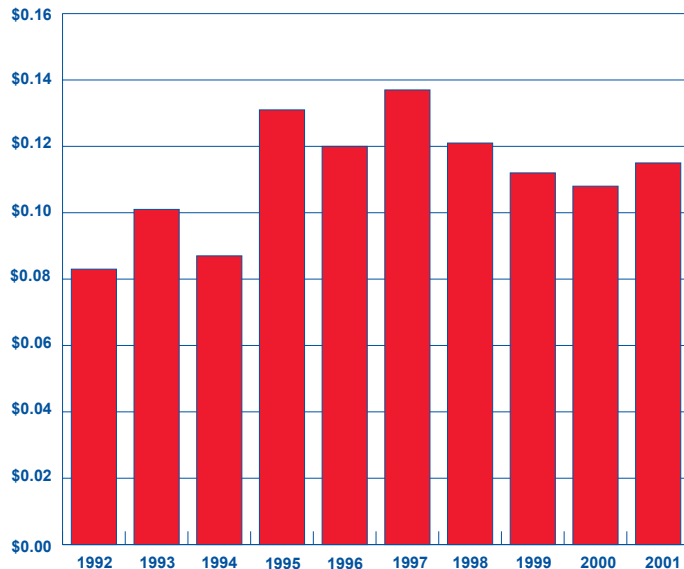


# Annual SBIR Award Dollars per \$1,000 of GSP

## OVERALL NATIONAL TREND

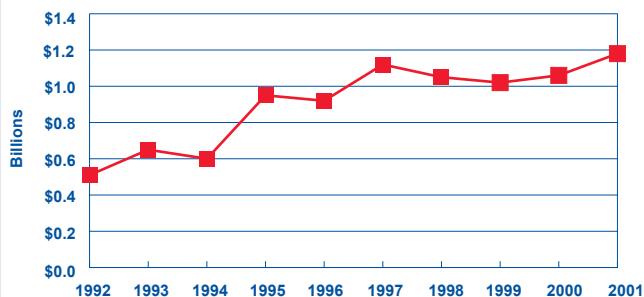
This indicator measures the degree of success that small businesses within a state are having in the competition for federal research funds from the Small Business Innovation Research (SBIR) program. States with a high percentage of small companies engaged in cutting edge research and aggressively seeking external funding are likely to do well on this indicator.

The value of this indicator for the United States rose between 1992 and 2001 although there were short-term increases and decreases during this period. For most states, the value of the SBIR awards won by their businesses increased more rapidly than the state's economy. However, there were several states where this was not the case. States such as Massachusetts, New Mexico, and Colorado scored well on this indicator throughout the last decade. Montana, in particular, has shown both marked improvement over the decade and a high overall ranking in recent years on this indicator.



## NUMERATOR

### SBIR Award Dollars



Spending on the SBIR program has increased from just over \$500 million in 1992 to \$1.15 billion in 2001 for an average annual growth rate of 9.4%. The total amount of SBIR spending showed an increasing trend over this entire period, although there were short-term fluctuations.

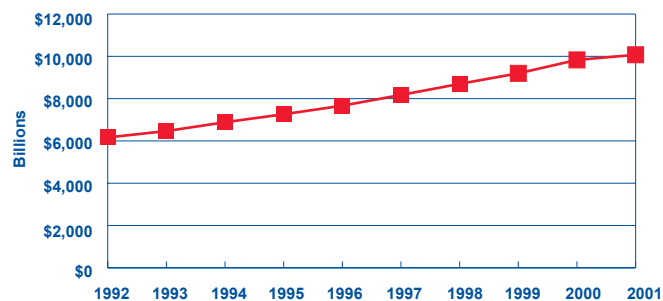
Companies in the states of California, Massachusetts, and Virginia were awarded the largest dollar amounts of SBIR funding. These states also experienced the largest dollar increases in SBIR funding over the decade. The states that showed the largest percentage increases in SBIR funding during this same period were West Virginia, Wyoming, and Montana.

## DENOMINATOR

### Gross State Product

Gross state product (GSP) was selected as the measure of the size of a state's economy. For the 50 states, the total of their GSPs showed a steady increase during the last decade rising from just over \$6.2 trillion in 1992 to \$10.1 trillion in 2001 for an average annual growth rate of 5.6%.

Between 1992 and 2001, the states with the largest GSPs were California, New York, and Texas. The states showing the largest percentage increases in their GSP during this period were Nevada, Arizona, and Colorado.



### Annual SBIR Award Dollars per \$1,000 of GSP: 1992 – 2001

State	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Alabama	\$0.12	\$0.10	\$0.12	\$0.19	\$0.20	\$0.26	\$0.17	\$0.13	\$0.21	\$0.12
Alaska	\$0.02	\$0.00	\$0.00	\$0.01	\$0.03	\$0.01	\$0.01	\$0.00	\$0.03	\$0.03
Arizona	\$0.06	\$0.12	\$0.09	\$0.09	\$0.13	\$0.17	\$0.14	\$0.14	\$0.14	\$0.14
Arkansas	\$0.01	\$0.01	\$0.01	\$0.00	\$0.00	\$0.00	\$0.01	\$0.02	\$0.03	\$0.01
California	\$0.14	\$0.16	\$0.17	\$0.22	\$0.22	\$0.24	\$0.20	\$0.17	\$0.16	\$0.19
Colorado	\$0.13	\$0.33	\$0.26	\$0.33	\$0.29	\$0.35	\$0.35	\$0.42	\$0.32	\$0.32
Connecticut	\$0.19	\$0.21	\$0.18	\$0.29	\$0.23	\$0.23	\$0.18	\$0.13	\$0.11	\$0.10
Delaware	\$0.04	\$0.08	\$0.11	\$0.09	\$0.17	\$0.18	\$0.03	\$0.09	\$0.15	\$0.14
Florida	\$0.04	\$0.05	\$0.03	\$0.05	\$0.05	\$0.07	\$0.04	\$0.05	\$0.06	\$0.05
Georgia	\$0.03	\$0.02	\$0.02	\$0.04	\$0.01	\$0.05	\$0.05	\$0.05	\$0.04	\$0.04
Hawaii	\$0.11	\$0.04	\$0.06	\$0.06	\$0.11	\$0.06	\$0.06	\$0.09	\$0.11	\$0.07
Idaho	\$0.01	\$0.01	\$0.02	\$0.06	\$0.02	\$0.03	\$0.02	\$0.03	\$0.03	\$0.05
Illinois	\$0.03	\$0.03	\$0.02	\$0.03	\$0.03	\$0.03	\$0.04	\$0.03	\$0.04	\$0.04
Indiana	\$0.01	\$0.02	\$0.02	\$0.03	\$0.03	\$0.04	\$0.02	\$0.04	\$0.02	\$0.03
Iowa	\$0.02	\$0.00	\$0.00	\$0.00	\$0.01	\$0.02	\$0.01	\$0.02	\$0.01	\$0.02
Kansas	\$0.01	\$0.02	\$0.02	\$0.08	\$0.01	\$0.03	\$0.06	\$0.04	\$0.03	\$0.04
Kentucky	\$0.01	\$0.01	\$0.01	\$0.02	\$0.03	\$0.04	\$0.02	\$0.02	\$0.02	\$0.02
Louisiana	\$0.00	\$0.02	\$0.01	\$0.01	\$0.02	\$0.01	\$0.01	\$0.01	\$0.02	\$0.02
Maine	\$0.03	\$0.12	\$0.06	\$0.10	\$0.06	\$0.05	\$0.04	\$0.06	\$0.08	\$0.09
Maryland	\$0.18	\$0.27	\$0.24	\$0.30	\$0.25	\$0.32	\$0.33	\$0.29	\$0.31	\$0.28
Massachusetts	\$0.53	\$0.68	\$0.45	\$0.72	\$0.71	\$0.74	\$0.66	\$0.63	\$0.58	\$0.58
Michigan	\$0.06	\$0.04	\$0.04	\$0.08	\$0.06	\$0.09	\$0.11	\$0.05	\$0.05	\$0.07
Minnesota	\$0.06	\$0.06	\$0.06	\$0.12	\$0.13	\$0.11	\$0.07	\$0.08	\$0.08	\$0.08
Mississippi	\$0.02	\$0.01	\$0.00	\$0.01	\$0.02	\$0.02	\$0.00	\$0.01	\$0.06	\$0.01
Missouri	\$0.01	\$0.02	\$0.01	\$0.02	\$0.01	\$0.02	\$0.04	\$0.02	\$0.03	\$0.02
Montana	\$0.02	\$0.07	\$0.12	\$0.11	\$0.09	\$0.02	\$0.14	\$0.17	\$0.26	\$0.34
Nebraska	\$0.04	\$0.05	\$0.00	\$0.03	\$0.00	\$0.03	\$0.02	\$0.02	\$0.05	\$0.04
Nevada	\$0.07	\$0.03	\$0.01	\$0.03	\$0.03	\$0.04	\$0.04	\$0.02	\$0.03	\$0.06
New Hampshire	\$0.26	\$0.27	\$0.29	\$0.36	\$0.40	\$0.48	\$0.25	\$0.26	\$0.29	\$0.29
New Jersey	\$0.07	\$0.09	\$0.08	\$0.12	\$0.10	\$0.11	\$0.09	\$0.10	\$0.09	\$0.09
New Mexico	\$0.48	\$0.38	\$0.21	\$0.44	\$0.41	\$0.38	\$0.35	\$0.49	\$0.35	\$0.40
New York	\$0.05	\$0.06	\$0.05	\$0.09	\$0.07	\$0.07	\$0.05	\$0.06	\$0.05	\$0.05
North Carolina	\$0.04	\$0.04	\$0.05	\$0.05	\$0.04	\$0.07	\$0.06	\$0.05	\$0.04	\$0.05
North Dakota	\$0.01	\$0.05	\$0.01	\$0.05	\$0.05	\$0.04	\$0.02	\$0.03	\$0.12	\$0.08
Ohio	\$0.07	\$0.07	\$0.05	\$0.13	\$0.10	\$0.11	\$0.14	\$0.11	\$0.11	\$0.13
Oklahoma	\$0.02	\$0.02	\$0.01	\$0.03	\$0.02	\$0.03	\$0.04	\$0.04	\$0.02	\$0.03
Oregon	\$0.12	\$0.09	\$0.14	\$0.16	\$0.15	\$0.18	\$0.15	\$0.12	\$0.10	\$0.12
Pennsylvania	\$0.05	\$0.08	\$0.06	\$0.11	\$0.08	\$0.12	\$0.11	\$0.10	\$0.08	\$0.10
Rhode Island	\$0.08	\$0.09	\$0.07	\$0.07	\$0.08	\$0.11	\$0.02	\$0.07	\$0.12	\$0.13
South Carolina	\$0.00	\$0.00	\$0.00	\$0.00	\$0.02	\$0.01	\$0.01	\$0.02	\$0.03	\$0.04
South Dakota	\$0.00	\$0.00	\$0.00	\$0.02	\$0.05	\$0.04	\$0.04	\$0.08	\$0.03	\$0.03
Tennessee	\$0.04	\$0.05	\$0.07	\$0.06	\$0.07	\$0.06	\$0.05	\$0.04	\$0.05	\$0.06
Texas	\$0.03	\$0.05	\$0.04	\$0.06	\$0.06	\$0.06	\$0.06	\$0.06	\$0.05	\$0.05
Utah	\$0.24	\$0.29	\$0.13	\$0.21	\$0.16	\$0.19	\$0.15	\$0.15	\$0.13	\$0.14
Vermont	\$0.02	\$0.12	\$0.12	\$0.21	\$0.25	\$0.12	\$0.19	\$0.19	\$0.25	\$0.14
Virginia	\$0.14	\$0.20	\$0.19	\$0.30	\$0.28	\$0.32	\$0.27	\$0.26	\$0.23	\$0.26
Washington	\$0.08	\$0.10	\$0.10	\$0.17	\$0.13	\$0.14	\$0.15	\$0.12	\$0.10	\$0.13
West Virginia	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01	\$0.03	\$0.01	\$0.04	\$0.05	\$0.09
Wisconsin	\$0.04	\$0.03	\$0.03	\$0.06	\$0.05	\$0.07	\$0.04	\$0.06	\$0.06	\$0.07
Wyoming	\$0.00	\$0.00	\$0.00	\$0.00	\$0.02	\$0.13	\$0.04	\$0.05	\$0.09	\$0.09
Dist of Columbia	\$0.02	\$0.04	\$0.03	\$0.04	\$0.02	\$0.09	\$0.02	\$0.11	\$0.07	\$0.06
Puerto Rico	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01	\$0.00
<b>50 States</b>	<b>\$0.08</b>	<b>\$0.10</b>	<b>\$0.09</b>	<b>\$0.13</b>	<b>\$0.12</b>	<b>\$0.14</b>	<b>\$0.12</b>	<b>\$0.11</b>	<b>\$0.11</b>	<b>\$0.11</b>

#### Data Sources

**SBIR Award Dollars Granted:** Small Business Administration, Office of Technology.

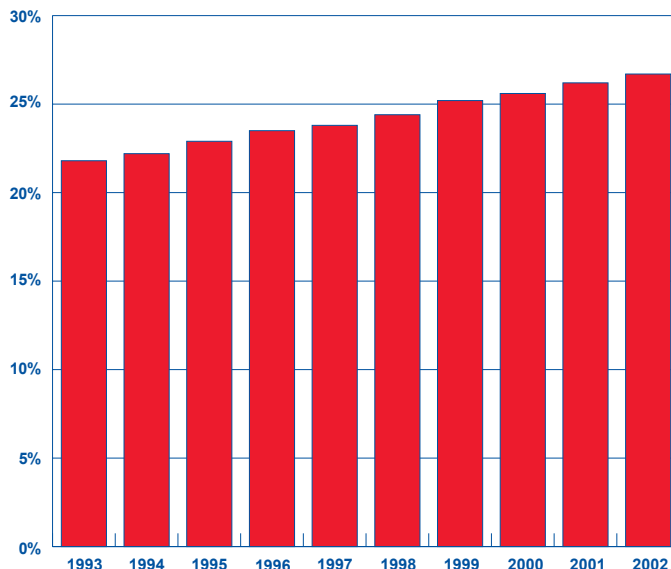
**Gross State Product:** U.S. Department of Commerce, Bureau of Economic Analysis; Puerto Rico Planning Board, Program of Economic and Social Planning.

# Percent of the Population with a Bachelor's Degree

## OVERALL NATIONAL TREND

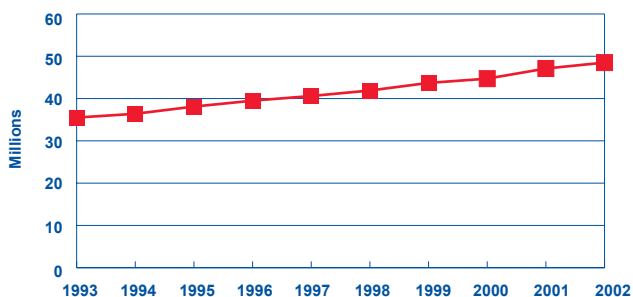
This indicator provides a measure of the educational attainment of the population in a particular area. It focuses upon individuals who have achieved a bachelor's degree or higher and classifies them based upon their residence location. States scoring high on this indicator have attracted and retained the college-educated segment of the population, regardless of where these individuals received their academic degrees.

Between 1993 and 2002, the value of this indicator showed a steady rise with an average annual growth rate of 0.5% in the United States as it increased from 21.8% to 26.7%. By the start of the 21st century, states such as Maryland, Colorado, and Virginia had attracted the highest percentage of college-educated residents, meaning that they are perceived as offering either the most attractive employment opportunities or the most attractive quality of life by college graduates. States such as Maryland, Indiana, and Rhode Island showed the largest increase in the percentage of their population with at least a bachelor's degree during the decade of the nineties.



## NUMERATOR

### Population 25 Years and Over with a Bachelor's Degree



Responses to the supplement of the Current Population Survey are used to estimate the number of residents age 25 and older who have earned at least a bachelor's degree. Bachelor degree holders below the age of 25 are not included in this count. During the period from 1993 to 2002, the number of U.S. residents aged 25 and older who had earned at least a bachelor's degree increased from 36 million to 49 million for an average annual growth rate of 3.5%.

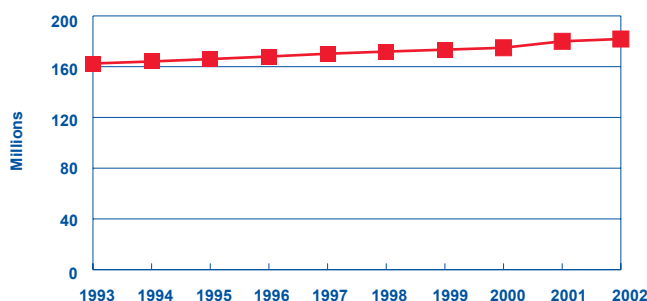
The largest number of bachelor's degree holders in this age cohort were residents of California, New York, and Texas. During the 1993 to 2002 period, the states showing the largest percentage increase in the number of resident bachelor degree holders in this age cohort were Nevada, Indiana, and Alabama.

## DENOMINATOR

### Population 25 Years and Over

The cohort of the population age 25 years and older showed a steady increase from 163 million in 1993 to 182 million in 2002 for an average annual growth rate of 1.3%. This growth rate is slightly higher than that reported for the U.S. population as a whole (1.2%).

In 2003, the states with the largest number of residents age 25 and over were California, Texas, and New York. Over the 1993-2002 period, the states of Texas, Florida, and California showed the largest increase in this age cohort. The largest percentage increases in this age group were reported in the states of Nevada, Utah, and Arizona. There are some differences between the states showing the highest growth in total population and those showing growth in the 25-and-over cohort.



### Percent of the Population with a Bachelor's Degree: 1993 – 2002

State	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Alabama	14.6%	15.2%	17.3%	18.0%	19.3%	20.6%	21.8%	20.4%	20.2%	22.7%
Alaska	23.1%	24.8%	25.2%	27.2%	27.5%	24.2%	25.5%	28.1%	25.7%	25.6%
Arizona	22.4%	19.9%	19.1%	20.4%	19.5%	21.9%	24.2%	24.6%	24.4%	26.3%
Arkansas	15.8%	12.4%	14.2%	14.6%	14.6%	16.2%	17.3%	18.4%	18.6%	18.3%
California	25.0%	24.7%	24.2%	26.8%	27.5%	26.4%	27.1%	27.5%	29.1%	27.9%
Colorado	30.2%	28.5%	33.3%	30.4%	28.9%	34.0%	38.7%	34.6%	35.2%	35.7%
Connecticut	28.4%	27.0%	32.7%	32.3%	30.0%	31.4%	33.5%	31.6%	32.4%	32.6%
Delaware	22.1%	21.9%	22.9%	27.4%	26.8%	25.1%	24.0%	24.0%	28.6%	29.5%
Florida	19.8%	21.0%	22.1%	20.4%	21.7%	22.5%	21.6%	22.8%	24.6%	25.7%
Georgia	21.1%	24.5%	22.7%	22.4%	22.3%	20.7%	21.5%	23.1%	24.2%	25.0%
Hawaii	25.1%	24.3%	22.6%	23.9%	22.5%	24.0%	26.2%	26.3%	27.9%	26.8%
Idaho	19.1%	21.8%	22.1%	20.3%	19.4%	20.3%	20.8%	20.0%	21.2%	20.9%
Illinois	22.1%	23.5%	24.6%	24.5%	25.0%	25.8%	25.6%	27.1%	26.7%	27.3%
Indiana	14.1%	15.0%	16.9%	16.2%	16.2%	17.7%	18.4%	17.1%	21.2%	23.7%
Iowa	18.4%	19.3%	19.7%	21.3%	21.7%	20.3%	21.7%	25.5%	23.9%	23.1%
Kansas	24.1%	22.7%	25.8%	26.5%	27.5%	28.5%	26.5%	27.3%	27.9%	29.1%
Kentucky	17.2%	16.8%	19.3%	17.5%	17.6%	20.1%	19.8%	20.5%	20.4%	21.6%
Louisiana	16.5%	17.0%	20.1%	19.2%	18.1%	19.5%	20.7%	22.5%	19.7%	22.1%
Maine	20.4%	21.2%	21.5%	19.7%	20.0%	19.2%	22.9%	24.1%	22.2%	23.8%
Maryland	26.1%	26.0%	26.4%	32.5%	32.2%	31.8%	34.7%	32.3%	35.7%	37.6%
Massachusetts	30.0%	30.1%	32.6%	32.4%	33.5%	31.0%	31.0%	32.7%	32.5%	34.3%
Michigan	19.1%	19.1%	20.7%	21.1%	21.0%	22.1%	21.3%	23.0%	24.0%	22.5%
Minnesota	23.3%	26.3%	26.5%	26.3%	28.3%	31.0%	32.0%	31.2%	31.4%	30.5%
Mississippi	17.5%	19.8%	17.6%	16.9%	20.9%	19.5%	19.2%	18.7%	23.3%	20.9%
Missouri	20.3%	21.3%	21.9%	24.3%	22.9%	22.4%	23.0%	26.2%	25.3%	26.7%
Montana	21.9%	24.3%	22.1%	21.9%	25.2%	23.9%	24.0%	23.8%	22.8%	23.6%
Nebraska	18.2%	21.1%	24.1%	24.0%	21.3%	20.9%	20.4%	24.6%	25.7%	27.1%
Nevada	17.6%	16.9%	17.4%	19.0%	19.9%	20.6%	20.2%	19.3%	20.8%	22.1%
New Hampshire	26.4%	26.2%	25.8%	27.6%	27.0%	26.6%	27.2%	30.1%	31.6%	30.1%
New Jersey	27.9%	28.1%	27.9%	28.3%	28.5%	30.1%	30.5%	30.1%	30.7%	31.4%
New Mexico	22.2%	24.1%	21.4%	20.8%	23.6%	23.1%	24.5%	23.6%	22.0%	25.4%
New York	24.2%	25.1%	26.3%	25.6%	25.8%	26.8%	26.9%	28.7%	28.9%	28.8%
North Carolina	18.5%	19.0%	20.6%	21.0%	22.6%	23.3%	23.9%	23.2%	23.1%	22.4%
North Dakota	20.8%	19.9%	19.8%	19.9%	20.5%	22.5%	22.3%	22.6%	24.4%	25.3%
Ohio	19.5%	19.8%	19.7%	22.3%	21.5%	21.5%	25.5%	24.6%	24.1%	24.5%
Oklahoma	20.5%	20.3%	19.1%	20.1%	20.5%	20.5%	23.7%	22.5%	21.1%	20.4%
Oregon	22.9%	24.5%	23.0%	22.8%	24.3%	27.7%	26.8%	27.2%	27.2%	27.1%
Pennsylvania	18.7%	19.5%	20.5%	22.3%	22.9%	22.1%	23.9%	24.3%	25.8%	26.1%
Rhode Island	20.5%	23.9%	27.9%	24.5%	25.7%	27.8%	26.8%	26.4%	27.4%	30.1%
South Carolina	16.7%	18.0%	18.2%	18.1%	19.2%	21.3%	20.9%	19.0%	23.4%	23.3%
South Dakota	19.4%	17.3%	18.9%	20.8%	20.1%	21.8%	25.6%	25.7%	23.6%	23.6%
Tennessee	14.9%	16.2%	17.8%	19.5%	17.1%	16.9%	17.7%	22.0%	21.0%	21.5%
Texas	22.1%	20.8%	22.0%	21.9%	22.4%	23.3%	24.4%	23.9%	23.8%	26.2%
Utah	22.7%	22.8%	24.0%	25.6%	26.7%	27.6%	27.9%	26.4%	27.9%	26.8%
Vermont	23.1%	27.7%	30.3%	27.1%	23.7%	27.1%	28.3%	28.8%	29.0%	30.8%
Virginia	25.8%	26.4%	26.0%	26.3%	28.0%	30.3%	31.6%	31.9%	30.6%	34.6%
Washington	27.9%	25.1%	26.5%	25.6%	26.1%	28.1%	28.6%	28.6%	26.9%	28.3%
West Virginia	12.2%	11.4%	12.7%	14.2%	14.7%	16.3%	17.9%	15.3%	15.8%	15.9%
Wisconsin	20.0%	20.9%	20.6%	24.0%	22.4%	22.3%	23.6%	23.8%	24.9%	24.7%
Wyoming	18.4%	16.8%	21.2%	24.2%	22.2%	19.8%	22.3%	20.6%	19.2%	19.6%
Dist of Columbia	37.6%	36.0%	38.2%	34.0%	33.7%	36.5%	42.1%	38.3%	41.6%	44.4%
Puerto Rico	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
50 States	21.8%	22.2%	22.9%	23.5%	23.8%	24.4%	25.2%	25.6%	26.2%	26.7%

#### Data Source

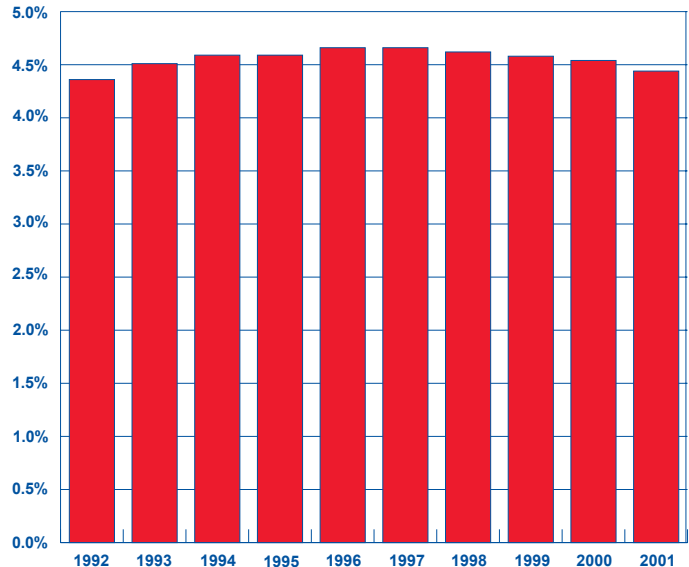
U.S. Census Bureau, Education & Social Stratification Branch.

# Bachelor's Degrees Granted as a Percent of the 18-24 Year Old Population

## OVERALL NATIONAL TREND

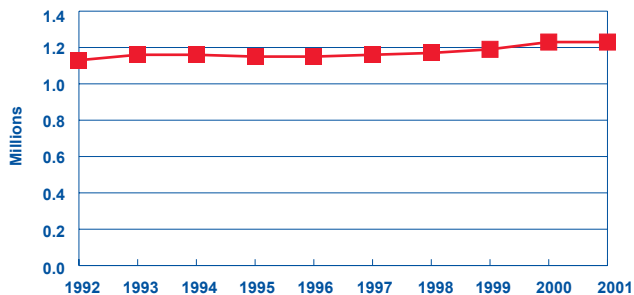
This indicator provides a measure of capacity and effectiveness in providing educational opportunities at the bachelor's degree level relative to the size of the population.

Among the states, the largest values for this indicator in 2001 were found in the smaller New England states such as Vermont, Rhode Island, Massachusetts, and New Hampshire. These states tend to have relatively small resident populations combined with a number of well-regarded educational institutions that attract a high percentage of out-of-state students. These states also had the highest values for this indicator throughout the decade. The states that showed the largest percentage increase in the value of this indicator were Hawaii, West Virginia, and New Jersey. These states are increasing their higher educational capacity and student enrollment relative to the size of their populations.



## NUMERATOR

### Bachelor's Degrees Granted



The number of bachelor's degrees granted in an academic year includes degrees granted by both public and private academic institutions. For the United States, this number remained essentially constant at 1.16 million degrees between 1993 and 1998. After 1998, the number of degrees awarded began to rise again, so that academic institutions were granting 9.3 % more bachelor's degrees in 2001 than they had in 1992.

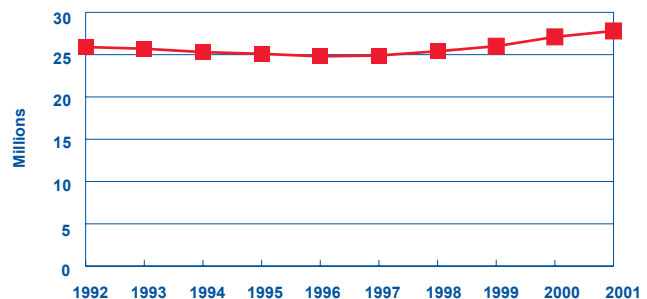
The largest numbers of bachelor's degrees were awarded in the states of California, New York, and Texas. These states also showed the largest increase in the number of bachelor's degrees awarded during the last decade. The largest percentage increases in the number of bachelor's degrees awarded between 1992 and 2001 were reported in the states of Nevada, Utah, and Arizona.

## DENOMINATOR

### 18-24 Year Old Population

The segment of the population aged 18-24 years was selected as the group most likely to be pursuing higher education opportunities. Across the United States, the number of individuals in this age range declined between 1992 and 1996 when it leveled out at nearly 25 million and began to rise again. One explanation for the dip in the size of this cohort is that it represents an echo of the low birth rate that occurred during the years of WWII when many of the parents of this cohort were born. During the 1992 to 2001 period, the number of 18-24 year olds showed a net increase of 1.9 million or 7.2%.

States with the largest populations of 18-24 year olds were California, Texas, and New York. The states showing the largest percentage increase in the number of 18-24 year old residents over the last decade were Nevada, Utah, and Arizona.



## Bachelor's Degrees Granted as a Percent of the 18–24 Year Old Population: 1992 – 2001

State	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Alabama	4.35%	4.51%	4.69%	4.48%	4.60%	4.76%	4.64%	4.65%	4.84%	4.67%
Alaska	1.92%	2.10%	2.28%	2.44%	2.31%	2.21%	2.14%	1.93%	2.38%	2.16%
Arizona	3.77%	4.00%	3.96%	3.91%	4.07%	4.14%	4.13%	4.13%	4.06%	3.97%
Arkansas	3.37%	3.43%	3.45%	3.47%	3.67%	3.71%	3.68%	3.68%	3.59%	3.60%
California	3.31%	3.50%	3.63%	3.64%	3.70%	3.63%	3.54%	3.51%	3.61%	3.56%
Colorado	5.56%	5.80%	5.76%	5.67%	5.49%	5.48%	5.41%	5.28%	5.01%	4.88%
Connecticut	4.92%	5.11%	5.01%	5.17%	5.12%	5.23%	5.30%	5.47%	5.55%	5.04%
Delaware	5.70%	5.82%	6.09%	6.66%	6.73%	6.66%	6.59%	6.58%	6.19%	5.72%
Florida	3.45%	3.66%	3.75%	3.84%	3.96%	4.02%	4.01%	4.01%	3.86%	3.80%
Georgia	3.21%	3.47%	3.59%	3.60%	3.77%	3.73%	3.90%	3.74%	3.49%	3.37%
Hawaii	3.24%	3.59%	3.72%	3.89%	4.08%	4.04%	3.90%	4.01%	4.43%	4.13%
Idaho	3.26%	3.42%	3.49%	3.35%	3.45%	3.35%	3.30%	3.24%	3.39%	3.20%
Illinois	4.56%	4.45%	4.59%	4.64%	4.64%	4.68%	4.64%	4.65%	4.55%	4.55%
Indiana	5.10%	5.22%	5.19%	5.19%	5.35%	5.38%	5.39%	5.33%	5.20%	5.12%
Iowa	6.11%	6.30%	6.47%	6.38%	6.56%	6.62%	6.34%	6.47%	6.29%	6.05%
Kansas	5.45%	5.68%	5.81%	5.81%	5.85%	5.68%	5.32%	5.18%	5.16%	5.15%
Kentucky	3.45%	3.57%	3.64%	3.63%	3.70%	3.72%	3.74%	3.83%	3.89%	3.74%
Louisiana	3.67%	3.87%	3.87%	3.89%	3.91%	3.78%	3.92%	3.90%	4.19%	4.12%
Maine	4.82%	5.05%	5.16%	5.22%	5.06%	5.06%	4.94%	5.04%	5.46%	4.86%
Maryland	4.58%	4.76%	4.91%	4.60%	4.67%	4.77%	4.81%	4.74%	4.69%	4.71%
Massachusetts	7.14%	7.13%	7.46%	7.48%	7.97%	8.07%	8.06%	8.04%	7.30%	7.26%
Michigan	4.56%	4.72%	4.72%	4.74%	4.81%	4.82%	4.79%	4.77%	4.91%	4.82%
Minnesota	5.78%	5.87%	5.91%	5.77%	5.56%	5.31%	5.24%	5.10%	4.93%	4.75%
Mississippi	3.34%	3.51%	3.46%	3.41%	3.34%	3.45%	3.43%	3.55%	3.53%	3.52%
Missouri	5.25%	5.34%	5.47%	5.59%	5.51%	5.63%	5.67%	5.57%	5.60%	5.44%
Montana	5.62%	5.40%	5.41%	5.20%	5.59%	5.47%	5.59%	5.54%	6.03%	5.72%
Nebraska	6.02%	6.03%	6.36%	6.31%	6.13%	6.04%	6.04%	5.89%	6.16%	5.99%
Nevada	2.25%	2.53%	2.65%	2.63%	2.57%	2.63%	2.66%	2.55%	2.36%	2.37%
New Hampshire	6.96%	7.26%	7.57%	7.66%	8.11%	8.07%	7.94%	7.60%	7.52%	6.55%
New Jersey	3.34%	3.56%	3.65%	3.63%	3.68%	3.72%	3.74%	3.80%	3.98%	3.90%
New Mexico	3.53%	3.56%	3.74%	3.80%	3.66%	3.69%	3.78%	3.72%	3.79%	3.55%
New York	5.33%	5.57%	5.53%	5.67%	5.95%	6.00%	5.78%	5.69%	5.35%	5.38%
North Carolina	4.04%	4.24%	4.47%	4.51%	4.68%	4.92%	4.86%	4.88%	4.37%	4.29%
North Dakota	7.13%	6.84%	6.87%	6.71%	6.77%	6.92%	6.76%	6.90%	6.67%	6.21%
Ohio	4.54%	4.66%	4.69%	4.63%	4.63%	4.69%	4.64%	4.67%	4.72%	4.71%
Oklahoma	4.46%	4.55%	4.78%	4.65%	4.39%	4.58%	4.72%	4.59%	4.36%	4.32%
Oregon	4.93%	4.75%	4.75%	4.56%	4.60%	4.50%	4.49%	4.45%	4.40%	4.17%
Pennsylvania	5.47%	5.66%	5.79%	5.86%	5.94%	6.12%	6.21%	6.24%	6.06%	5.88%
Rhode Island	8.37%	8.94%	9.37%	9.91%	10.30%	10.12%	9.84%	10.00%	7.88%	7.48%
South Carolina	3.48%	3.77%	3.86%	3.90%	3.95%	4.02%	3.93%	4.02%	3.93%	3.88%
South Dakota	5.93%	6.06%	5.84%	5.91%	6.05%	5.69%	5.61%	5.43%	5.79%	5.18%
Tennessee	3.66%	3.90%	3.85%	3.97%	4.04%	4.15%	4.18%	4.23%	4.18%	4.10%
Texas	3.41%	3.54%	3.60%	3.60%	3.63%	3.59%	3.52%	3.50%	3.45%	3.37%
Utah	5.59%	5.73%	5.96%	5.74%	5.85%	5.70%	5.74%	5.85%	5.37%	5.32%
Vermont	7.45%	7.99%	8.26%	8.46%	8.66%	8.42%	8.56%	8.95%	8.54%	7.81%
Virginia	4.37%	4.50%	4.65%	4.72%	4.86%	4.76%	4.72%	4.60%	4.95%	4.69%
Washington	4.04%	4.22%	4.31%	4.36%	4.46%	4.39%	4.34%	4.13%	4.29%	4.03%
West Virginia	4.35%	4.50%	4.73%	4.57%	4.61%	4.46%	4.55%	4.73%	4.96%	4.99%
Wisconsin	5.55%	5.61%	5.62%	5.55%	5.57%	5.62%	5.49%	5.38%	5.29%	5.27%
Wyoming	3.96%	3.94%	3.67%	3.53%	3.20%	3.18%	3.22%	3.32%	3.60%	3.19%
Dist of Columbia	11.71%	12.57%	12.30%	13.55%	15.53%	16.78%	16.80%	15.38%	9.37%	11.82%
Puerto Rico	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.77%	3.70%
50 States	4.36%	4.51%	4.59%	4.59%	4.66%	4.66%	4.62%	4.58%	4.54%	4.44%

### Data Sources

Bachelor's Degrees Granted: U.S. Department of Education, National Center for Education Statistics.

Population, 18–24 Years Old: U.S. Census Bureau, Population Division.

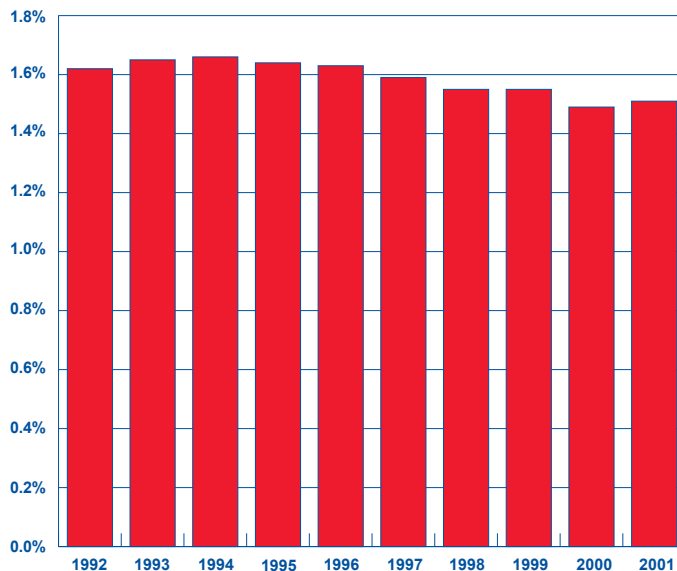


# Science and Engineering Graduate Students as a Percent of the 18-24 Year Old Population

## OVERALL NATIONAL TREND

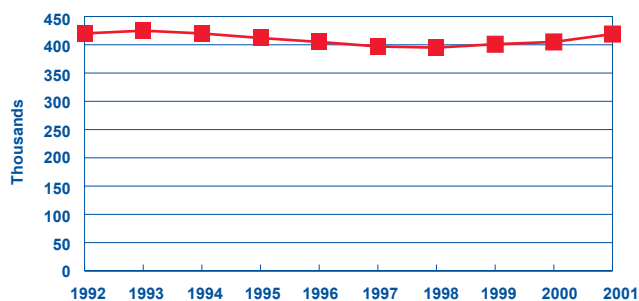
This indicator provides a measure of a state's ability to provide science and engineering (S&E) opportunities at the graduate level for its young adult population and its success in attracting students to these programs. During the decade from 1992 through 2001, the value of this indicator declined from 1.62% to 1.51% for the 50 states indicating that a smaller percentage of young adults chose to undertake graduate level training in S&E. Since graduate students in S&E include not only state residents but also students from other states and nations, the perceived stature of a state's S&E graduate programs may affect enrollment.

In 2001, the states with the highest enrollment in graduate S&E programs relative to the size of their young adult population were Massachusetts, Connecticut, and New York. These same three states had the highest value for this indicator during the entire period from 1992–2001. During the same years, only sixteen states showed growth in the number of S&E graduate students expressed as a percentage of their population, led by Connecticut, Massachusetts, and Virginia.



## NUMERATOR

### S&E Graduate Students



This metric includes both U.S. citizens and foreign nationals enrolled in U.S. graduate programs. The total number of S&E graduate students in the United States declined from a high of 425,000 in 1993 to a low of 395,000 in 1998 before rebounding to 419,000 in 2001. This trough is similar to that seen in the 18–24 year old population and may be a simple reflection of this demographic feature.

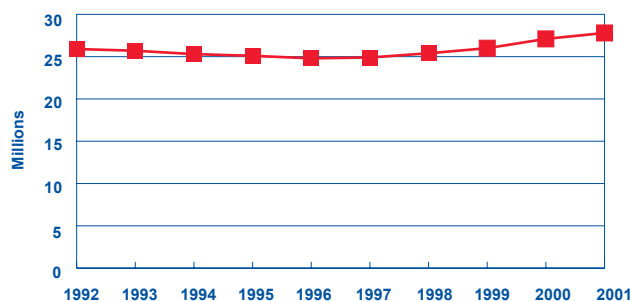
The states educating the largest number of S&E graduate students are California, New York, and Texas. The states showing the largest net increase in the number of S&E graduate students between 1992 and 2001 are Florida, Illinois, and Virginia. The largest percentage increases during these years occurred in the states of Florida, Kansas, and Arkansas.

## DENOMINATOR

### 18–24 Year Old Population

The segment of the population aged 18–24 years was selected as the group most likely to be pursuing higher education opportunities. Across the United States, the number of individuals in this age range declined between 1992 and 1996 when it leveled out at nearly 25 million and began to rise again. One explanation for the dip in the size of this cohort is that it represents an echo of the low birth rate that occurred during the years of WWII when many of the parents of this cohort were born. During the 1992 to 2001 period, the number of 18–24 year olds showed a net increase of 1.9 million or 7.2%.

States with the largest populations of 18–24 year olds were California, Texas, and New York. The states showing the largest percentage increase in the number of 18–24 year old residents over the last decade were Nevada, Utah, and Arizona.





### Science and Engineering Graduate Students as a Percent of the 18–24 Year Old Population: 1992 – 2001

State	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Alabama	1.21%	1.28%	1.24%	1.20%	1.22%	1.22%	1.17%	1.13%	1.17%	1.20%
Alaska	1.31%	1.38%	1.38%	1.34%	1.25%	1.12%	1.01%	0.95%	1.04%	1.00%
Arizona	1.83%	1.76%	1.70%	1.61%	1.57%	1.50%	1.44%	1.40%	1.26%	1.29%
Arkansas	0.73%	0.82%	0.83%	0.86%	0.82%	0.75%	0.81%	0.76%	0.75%	0.78%
California	1.68%	1.71%	1.72%	1.73%	1.72%	1.68%	1.63%	1.60%	1.59%	1.58%
Colorado	2.58%	2.57%	2.49%	2.46%	2.42%	2.31%	2.23%	2.10%	2.02%	2.03%
Connecticut	2.03%	2.20%	2.23%	2.26%	2.22%	2.15%	2.30%	2.37%	2.31%	2.48%
Delaware	2.03%	2.17%	2.22%	2.28%	2.24%	2.17%	2.18%	2.08%	1.88%	1.86%
Florida	1.13%	1.21%	1.26%	1.17%	1.22%	1.18%	1.15%	1.20%	1.16%	1.19%
Georgia	1.15%	1.19%	1.24%	1.20%	1.17%	1.15%	1.12%	1.10%	1.05%	1.09%
Hawaii	1.41%	1.50%	1.59%	1.52%	1.49%	1.36%	1.32%	1.24%	1.23%	1.23%
Idaho	1.25%	1.29%	1.26%	1.15%	1.03%	1.06%	1.06%	1.01%	0.94%	1.07%
Illinois	1.88%	1.95%	1.94%	1.97%	2.01%	1.97%	1.94%	1.97%	1.90%	1.97%
Indiana	1.50%	1.54%	1.55%	1.56%	1.54%	1.47%	1.39%	1.40%	1.29%	1.37%
Iowa	1.72%	1.79%	1.79%	1.76%	1.76%	1.71%	1.57%	1.56%	1.56%	1.53%
Kansas	1.92%	1.97%	2.22%	2.19%	2.34%	2.28%	2.14%	2.06%	2.08%	2.04%
Kentucky	0.93%	0.90%	0.94%	0.96%	0.94%	0.89%	0.86%	0.93%	0.84%	0.97%
Louisiana	1.14%	1.17%	1.21%	1.21%	1.23%	1.16%	1.09%	1.12%	1.16%	1.18%
Maine	0.68%	0.66%	0.66%	0.65%	0.60%	0.53%	0.53%	0.52%	0.57%	0.54%
Maryland	1.93%	2.02%	2.11%	2.14%	2.16%	2.14%	2.12%	2.07%	1.99%	1.96%
Massachusetts	3.18%	3.34%	3.58%	3.71%	3.85%	3.85%	3.88%	3.88%	3.37%	3.43%
Michigan	1.60%	1.65%	1.67%	1.62%	1.61%	1.60%	1.56%	1.57%	1.73%	1.65%
Minnesota	1.61%	1.67%	1.59%	1.55%	1.55%	1.51%	1.52%	1.52%	1.43%	1.34%
Mississippi	0.84%	0.87%	0.91%	0.92%	0.92%	0.90%	0.98%	0.81%	0.85%	0.82%
Missouri	1.27%	1.25%	1.24%	1.25%	1.19%	1.16%	1.11%	1.12%	1.11%	1.14%
Montana	1.66%	1.70%	1.60%	1.52%	1.42%	1.34%	1.39%	1.38%	1.40%	1.40%
Nebraska	1.73%	1.80%	1.75%	1.65%	1.59%	1.45%	1.35%	1.40%	1.41%	1.35%
Nevada	1.12%	1.17%	1.20%	1.19%	1.08%	1.04%	0.99%	0.88%	0.79%	0.86%
New Hampshire	1.11%	1.10%	1.12%	1.15%	1.29%	1.27%	1.19%	1.34%	1.30%	1.21%
New Jersey	1.55%	1.60%	1.57%	1.60%	1.61%	1.58%	1.54%	1.57%	1.65%	1.64%
New Mexico	2.15%	2.25%	2.10%	2.03%	1.87%	1.73%	1.69%	1.68%	1.75%	1.77%
New York	2.37%	2.40%	2.37%	2.35%	2.42%	2.42%	2.41%	2.46%	2.14%	2.18%
North Carolina	1.22%	1.24%	1.33%	1.36%	1.42%	1.41%	1.40%	1.39%	1.23%	1.29%
North Dakota	1.40%	1.38%	1.41%	1.38%	1.35%	1.27%	1.41%	1.52%	1.44%	1.43%
Ohio	1.69%	1.74%	1.76%	1.75%	1.69%	1.62%	1.55%	1.51%	1.52%	1.50%
Oklahoma	1.35%	1.30%	1.25%	1.23%	1.20%	1.14%	1.14%	1.08%	0.97%	1.13%
Oregon	1.52%	1.52%	1.52%	1.47%	1.37%	1.29%	1.18%	1.20%	1.16%	1.20%
Pennsylvania	1.69%	1.73%	1.80%	1.82%	1.84%	1.83%	1.79%	1.78%	1.67%	1.64%
Rhode Island	1.88%	1.94%	1.99%	2.10%	1.96%	1.89%	1.87%	1.96%	1.60%	1.49%
South Carolina	0.94%	0.96%	0.96%	0.97%	0.95%	0.94%	0.87%	0.84%	0.78%	0.77%
South Dakota	1.39%	1.35%	1.26%	1.28%	1.25%	1.14%	1.09%	1.01%	1.12%	1.16%
Tennessee	1.20%	1.24%	1.30%	1.26%	1.19%	1.21%	1.14%	1.10%	0.98%	1.05%
Texas	1.59%	1.57%	1.46%	1.38%	1.35%	1.35%	1.30%	1.31%	1.28%	1.28%
Utah	1.86%	1.83%	1.78%	1.70%	1.55%	1.41%	1.28%	1.26%	1.20%	1.27%
Vermont	1.13%	1.14%	1.24%	1.35%	1.15%	1.11%	1.17%	1.14%	1.11%	0.99%
Virginia	1.55%	1.65%	1.69%	1.82%	1.80%	1.75%	1.71%	1.70%	1.70%	1.74%
Washington	1.23%	1.23%	1.26%	1.24%	1.18%	1.12%	1.08%	1.03%	1.06%	1.01%
West Virginia	1.07%	1.11%	1.08%	1.05%	1.04%	1.08%	1.18%	1.17%	1.17%	1.16%
Wisconsin	1.77%	1.79%	1.76%	1.69%	1.60%	1.57%	1.48%	1.44%	1.50%	1.45%
Wyoming	1.86%	1.86%	1.79%	1.62%	1.49%	1.63%	1.49%	1.40%	1.51%	1.45%
Dist of Columbia	12.50%	13.95%	15.44%	16.59%	18.02%	18.20%	16.45%	15.81%	9.81%	11.21%
Puerto Rico	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.69%	0.72%
50 States	1.62%	1.65%	1.66%	1.64%	1.63%	1.59%	1.55%	1.55%	1.49%	1.51%

#### Data Sources

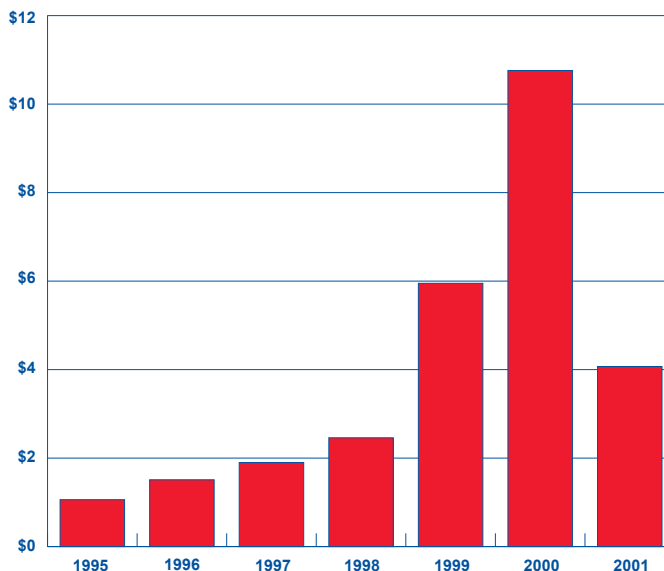
Science and Engineering Graduate Students: National Science Foundation, Division of Science Resources Statistics.  
Population, 18–24 Years Old: U.S. Census Bureau, Population Division.

# Venture Capital Funds Invested per \$1,000 of GSP

## OVERALL NATIONAL TREND

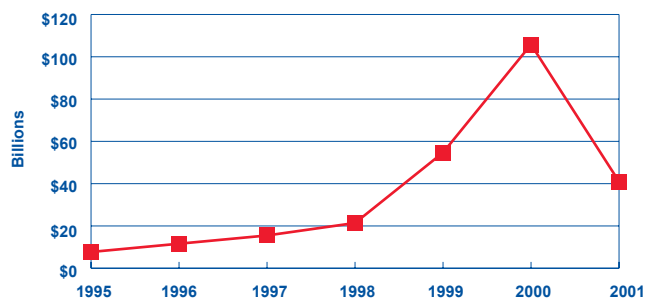
This indicator provides a measure of the amount of venture capital that is being invested in the companies located in a state relative to the size of that state's economy. Dividing the venture capital investment in a state by the size of the state's economy provides an indication of the magnitude of the impact that venture capital is having in a state.

Between 1995 and 2001, the value of this indicator for the United States rose steeply to a peak in 2000 before it began an even steeper decline. During these years, its value varied by as much as a factor of 10. Companies located in the states of Massachusetts, California, and Colorado had the best access to venture capital investments throughout this entire period. During this time, the states that showed the largest percentage increase in venture capital investments relative to the size of the state's economy were Nevada, Delaware, and Maine.



## NUMERATOR

### Venture Capital Funds



The amount of venture capital investments in the United States rose from less than \$8 billion in 1995 to \$106 billion in 2000 before declining to \$41 billion in 2001. This dramatic increase and subsequent decline are sometimes referred to as the venture capital "bubble."

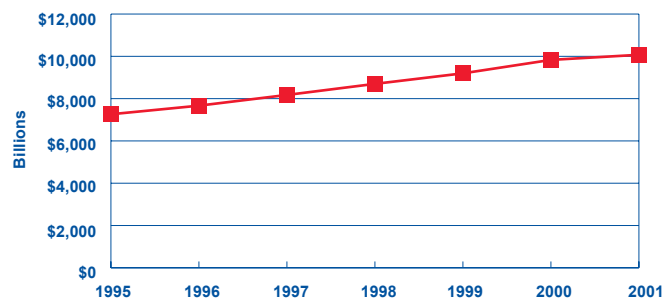
The distribution of venture capital among the states during this period has been, and continues to be, very uneven. Venture capital investments have been concentrated in the states of California, Massachusetts, Texas, and New York. Companies in at least nine states have had received negligible amounts of venture capital funding during this entire period.

## DENOMINATOR

### Gross State Product

Gross state product (GSP) was selected as the measure of the size of a state's economy. For the 50 states, the total of their GSPs showed a steady increase rising from \$7.3 trillion in 1995 to \$10.1 trillion in 2001 for an average annual growth rate of 5.6%.

Between 1995 and 2001, the states with the largest GSPs were California, New York, and Texas. The states showing the largest percentage increases in their GSP during this period were Nevada, Colorado, and Arizona.



### Venture Capital Funds Invested per \$1,000 of GSP: 1995 – 2001

State	1995	1996	1997	1998	1999	2000	2001
Alabama	\$0.38	\$0.51	\$1.01	\$0.80	\$0.52	\$2.23	\$0.71
Alaska	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.12	\$0.00
Arizona	\$0.89	\$0.84	\$1.29	\$1.58	\$2.45	\$4.41	\$1.66
Arkansas	\$0.09	\$0.00	\$0.07	\$0.11	\$0.25	\$0.15	\$0.15
California	\$3.03	\$4.98	\$5.91	\$7.42	\$19.86	\$33.23	\$12.22
Colorado	\$3.04	\$2.80	\$3.03	\$6.90	\$12.64	\$25.66	\$7.98
Connecticut	\$1.07	\$1.50	\$2.06	\$3.14	\$6.70	\$9.38	\$3.47
Delaware	\$0.16	\$0.43	\$0.03	\$0.00	\$0.48	\$4.01	\$4.10
Florida	\$0.70	\$1.16	\$1.42	\$1.04	\$3.38	\$5.15	\$1.96
Georgia	\$0.80	\$1.31	\$1.73	\$1.53	\$4.24	\$7.58	\$3.05
Hawaii	\$0.00	\$0.54	\$0.04	\$0.11	\$0.31	\$4.61	\$0.87
Idaho	\$0.56	\$0.00	\$0.04	\$0.98	\$0.06	\$0.23	\$0.17
Illinois	\$0.63	\$0.92	\$0.86	\$0.80	\$2.55	\$4.93	\$1.89
Indiana	\$0.06	\$0.15	\$0.15	\$0.15	\$0.21	\$1.34	\$0.28
Iowa	\$0.20	\$0.29	\$0.22	\$0.12	\$0.16	\$0.26	\$0.07
Kansas	\$0.10	\$0.43	\$0.54	\$0.16	\$0.36	\$3.09	\$0.47
Kentucky	\$0.19	\$0.33	\$0.37	\$0.35	\$0.82	\$1.75	\$0.24
Louisiana	\$0.27	\$0.12	\$0.17	\$0.56	\$2.20	\$1.05	\$0.51
Maine	\$0.05	\$0.05	\$0.34	\$1.92	\$1.68	\$3.86	\$0.95
Maryland	\$0.85	\$0.95	\$1.19	\$1.98	\$5.26	\$9.83	\$4.89
Massachusetts	\$3.51	\$5.54	\$6.45	\$8.39	\$19.22	\$36.64	\$17.07
Michigan	\$0.29	\$0.36	\$0.52	\$0.40	\$0.74	\$1.05	\$0.32
Minnesota	\$1.24	\$1.01	\$1.75	\$2.30	\$3.56	\$5.99	\$2.89
Mississippi	\$0.05	\$0.19	\$0.14	\$0.06	\$3.98	\$0.29	\$0.60
Missouri	\$0.58	\$0.23	\$0.20	\$4.18	\$1.85	\$4.45	\$2.04
Montana	\$0.00	\$0.24	\$0.00	\$0.03	\$0.85	\$0.72	\$1.10
Nebraska	\$0.37	\$0.22	\$0.07	\$0.64	\$0.55	\$0.31	\$0.30
Nevada	\$0.01	\$0.04	\$0.19	\$0.39	\$0.36	\$0.32	\$0.38
New Hampshire	\$0.95	\$1.14	\$1.18	\$4.42	\$4.57	\$16.94	\$5.44
New Jersey	\$1.05	\$1.37	\$1.59	\$1.57	\$2.95	\$9.58	\$4.06
New Mexico	\$0.08	\$0.51	\$0.57	\$0.16	\$0.25	\$0.40	\$0.17
New York	\$0.51	\$0.47	\$1.16	\$1.82	\$4.96	\$9.47	\$2.64
North Carolina	\$1.13	\$1.02	\$1.24	\$1.50	\$3.01	\$6.74	\$2.30
North Dakota	\$0.68	\$0.00	\$0.07	\$0.03	\$0.18	\$0.33	\$0.08
Ohio	\$0.23	\$0.51	\$0.62	\$0.79	\$1.28	\$2.57	\$0.63
Oklahoma	\$0.09	\$0.42	\$0.35	\$0.08	\$0.84	\$0.44	\$0.26
Oregon	\$0.51	\$1.04	\$1.38	\$0.52	\$4.92	\$6.47	\$1.86
Pennsylvania	\$0.44	\$0.89	\$2.55	\$1.70	\$3.79	\$6.58	\$2.22
Rhode Island	\$0.23	\$0.01	\$0.36	\$0.26	\$0.42	\$3.10	\$1.68
South Carolina	\$0.61	\$1.01	\$0.61	\$0.53	\$0.92	\$2.14	\$0.23
South Dakota	\$0.00	\$0.00	\$0.00	\$0.00	\$0.03	\$0.01	\$0.02
Tennessee	\$1.28	\$1.17	\$0.66	\$0.77	\$3.63	\$2.15	\$0.59
Texas	\$0.84	\$0.88	\$1.43	\$1.68	\$4.16	\$8.24	\$4.33
Utah	\$0.24	\$1.13	\$1.82	\$1.97	\$5.88	\$10.32	\$3.17
Vermont	\$0.23	\$0.00	\$0.00	\$0.09	\$0.00	\$2.56	\$0.61
Virginia	\$1.44	\$2.41	\$1.75	\$3.54	\$5.87	\$12.78	\$3.54
Washington	\$2.18	\$2.58	\$2.42	\$3.93	\$9.20	\$12.50	\$4.71
West Virginia	\$0.00	\$0.00	\$0.62	\$0.00	\$0.00	\$0.12	\$0.04
Wisconsin	\$0.07	\$0.16	\$0.35	\$0.47	\$0.56	\$1.16	\$0.53
Wyoming	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.17
Dist of Columbia	\$0.00	\$0.14	\$0.14	\$1.56	\$7.98	\$9.47	\$3.13
Puerto Rico	\$0.27	\$0.27	\$0.39	\$0.04	\$0.12	\$0.75	\$0.61
<b>50 States</b>	<b>\$1.06</b>	<b>\$1.51</b>	<b>\$1.90</b>	<b>\$2.46</b>	<b>\$5.95</b>	<b>\$10.76</b>	<b>\$4.07</b>

#### Data Sources

**Venture Capital:** PricewaterhouseCoopers, Venture Economics, and National Venture Capital Association. MoneyTree Survey™.

**Gross State Product:** U.S. Department of Commerce, Bureau of Economic Analysis; Puerto Rico Planning Board, Program of Economic and Social Planning.

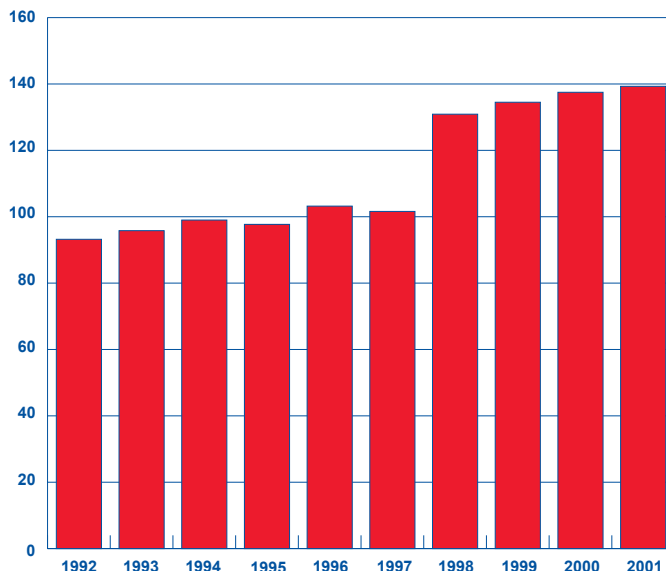
# Annual Number of U.S. Patents Issued per 10,000 Business Establishments

## OVERALL NATIONAL TREND

This indicator provides a measure of the amount of intellectual property (IP) being created in a state relative to the number of companies available to commercialize that IP. High levels of patent creation relative to the number of companies located in a state reflect aggressive R&D efforts and the ability to refresh the IP of resident companies.

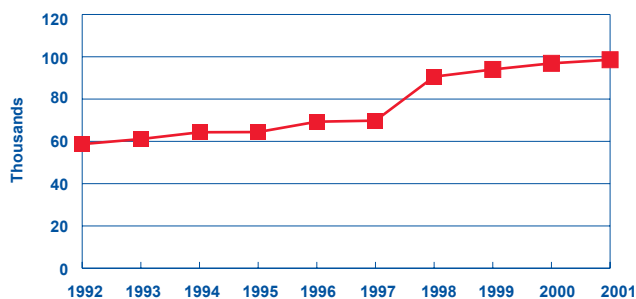
Nationally, the value of this indicator showed a steady rise between 1992 and 2001 with a significant increase between 1997 and 1998. The average annual growth rate for the United States during this ten-year period was 4.6%.

Inventors residing in the states of Idaho, California, and Vermont generated the highest level of patent activity relative to the size of the state's business base in 2001. These three states also showed the largest increases in annual patents issued per 10,000 business establishments between 1992 and 2001 as well as the largest percentage increases during this period. Most states showed growth in the value of this indicator between 1992 and 2001.



## NUMERATOR

### U.S. Patents Issued



The number of U.S. patents awarded to inventors living in the United States increased from nearly 60,000 patents in 1992 to nearly 100,000 patents in 2001 for an average annual growth rate of 5.9%. The annual level of patent activity showed a sudden increase of more than 20,000 patents in 1998, reflecting an increase in the number of patent examiners. More patents were issued to inventors living in almost all states in 2001 than in 1992.

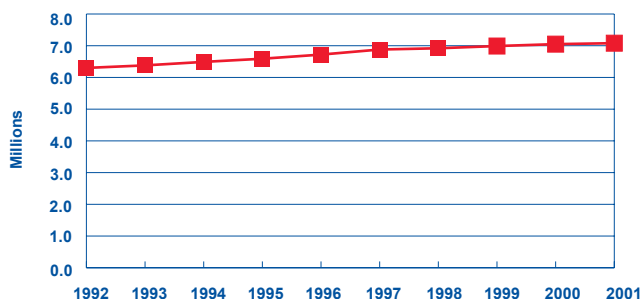
The highest levels of U.S. patent activity during this decade occurred in the states of California, New York, and Texas. The largest percentage increase in patent activity between 1992 and 2001 occurred in the states of Idaho, Vermont, and North Carolina.

## DENOMINATOR

### Business Establishments

During the decade between 1992 and 2001, the number of business establishments in the United States increased steadily from 6.3 million to 7.1 million for an average annual growth rate of 1.3%. The number of businesses operating in almost all states increased during this period.

The states with the largest number of business establishments, California, New York, and Texas, were also the states with the largest populations. The states showing the highest percentage increase in the number of business establishments between 1992 and 2001 were Nevada, Utah, Colorado, and Idaho. These states experienced an increase in the number of businesses ranging from 30 to 50 % during this time period.



### Annual Number of U.S. Patents Issued per 10,000 Business Establishments: 1992 – 2001

State	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Alabama	33	35	36	37	34	34	42	47	40	46
Alaska	29	36	33	28	28	33	42	36	31	31
Arizona	100	100	109	112	111	107	152	144	153	146
Arkansas	32	28	27	24	27	24	30	36	39	35
California	122	130	141	146	159	169	230	240	248	259
Colorado	91	97	104	102	108	106	147	149	151	152
Connecticut	180	193	202	194	183	177	224	219	226	225
Delaware	275	264	221	211	219	166	185	190	180	177
Florida	56	55	59	62	62	61	74	72	73	72
Georgia	50	51	56	58	62	58	77	78	77	79
Hawaii	27	35	33	28	35	31	31	33	31	35
Idaho	91	118	116	100	114	168	249	342	431	462
Illinois	117	117	115	118	124	117	143	140	147	139
Indiana	82	81	84	91	99	91	107	116	116	110
Iowa	54	56	59	62	61	56	89	101	84	101
Kansas	48	46	47	45	48	44	55	66	63	51
Kentucky	37	39	40	40	46	39	45	57	57	61
Louisiana	58	52	46	43	45	40	54	51	57	56
Maine	37	41	39	38	31	29	37	37	38	39
Maryland	92	91	98	90	97	100	124	129	115	127
Massachusetts	159	160	167	151	166	170	222	220	218	224
Michigan	141	142	145	134	149	131	162	170	174	179
Minnesota	136	147	159	154	155	155	206	211	215	208
Mississippi	27	25	29	24	29	31	34	38	35	39
Missouri	62	55	55	59	54	61	73	75	67	67
Montana	39	39	35	48	47	34	48	45	45	50
Nebraska	35	41	40	32	39	38	48	47	60	51
Nevada	52	54	59	58	59	53	74	76	84	76
New Hampshire	111	122	135	133	132	137	176	186	181	180
New Jersey	149	151	150	139	150	151	182	189	188	183
New Mexico	67	67	65	69	58	66	85	83	81	92
New York	108	116	118	113	123	113	148	142	143	145
North Carolina	56	62	67	69	77	76	93	97	108	111
North Dakota	35	34	30	31	35	24	34	37	49	53
Ohio	116	116	119	113	119	122	144	148	149	148
Oklahoma	84	86	77	67	65	54	64	64	72	74
Oregon	82	93	85	93	101	112	157	139	145	149
Pennsylvania	103	107	109	103	112	100	129	139	136	130
Rhode Island	90	101	101	95	104	108	126	121	136	117
South Carolina	61	60	59	59	57	53	72	68	65	66
South Dakota	20	20	21	19	21	23	24	33	41	35
Tennessee	51	53	56	57	56	57	70	78	74	74
Texas	89	89	99	98	101	97	129	138	144	143
Utah	110	114	110	121	125	131	141	139	143	141
Vermont	67	76	85	83	135	137	161	168	193	236
Virginia	65	63	61	58	58	54	68	66	73	73
Washington	72	74	77	83	86	95	124	125	125	138
West Virginia	49	46	41	37	34	40	51	40	38	40
Wisconsin	105	103	106	107	112	110	136	143	148	160
Wyoming	22	26	32	44	26	34	27	32	37	32
Dist of Columbia	35	32	25	32	22	30	43	32	33	37
Puerto Rico	N/A	N/A	N/A	N/A	N/A	N/A	4.93	7.59	7.04	2.70
<b>50 States</b>	<b>93</b>	<b>96</b>	<b>99</b>	<b>98</b>	<b>103</b>	<b>102</b>	<b>131</b>	<b>134</b>	<b>137</b>	<b>139</b>

#### Data Sources

**U.S. Patents Issued:** U.S. Patent and Trademark Office, Office of Electronic Information Products/ PTMD.

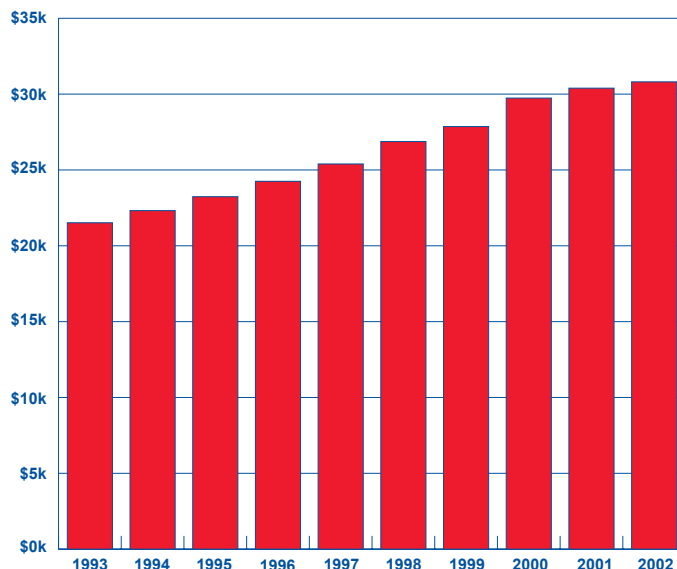
**Establishments:** U.S. Census Bureau, County Business Patterns.

# Per Capita Personal Income

## OVERALL NATIONAL TREND

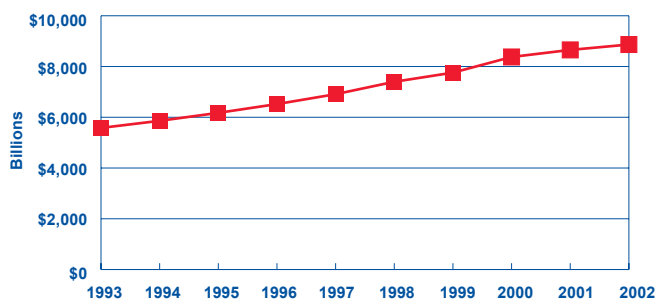
The per capita personal income in the United States showed a steady average annual growth rate of 4.1% as it rose from \$21,539 in 1993 to \$30,834 in 2002 for an overall increase of 43%. All states experienced positive growth in per capita income during this period, ranging from 20% to nearly 55%, based upon data reported in current dollars not corrected for inflation.

The states with the highest per capita income in 2002 were Connecticut, New Jersey, and Massachusetts. The states with the largest increase in dollar amounts of per capita income during the preceding decade were Massachusetts, Connecticut, and New Jersey. The states with the largest percentage increases in per capita income between 1993 and 2002 were Minnesota, Massachusetts, and New Hampshire.



## NUMERATOR

### Personal Income



Personal income includes wages and salaries, other labor income, proprietors' income, rental income, personal dividend income, personal interest income, and transfer payments. Personal income rose more rapidly during the 1993–2002 period than did population. During the 1993–2002 period, personal income for the entire United States rose from \$5.6 billion to \$8.9 billion for an average annual growth rate of 5.3%.

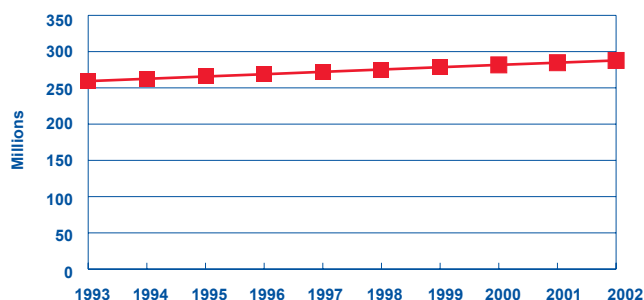
States with the largest amounts of personal income in 2003 were California, New York, and Texas. These three states also showed the largest increase in personal income over the 1993–2002 period. The states that showed the largest percentage increase in personal income during this period were Nevada, Arizona, and Colorado.

## DENOMINATOR

### Population

Annual estimates of the total population came from the Bureau of Economic Analysis. Between 1993 and 2002, the population of the United States showed a steady increase with an average annual growth rate of 1.2% as it increased from 259 to 288 million people.

The states with largest populations were California, Texas, and New York. The states showing the largest increase in population between 1993 and 2002 were California, Texas, and Florida, while Nevada, Arizona, and Colorado showed the largest percentage increases during this period. As might be expected, population growth and increase in personal income are closely linked.





### Per Capita Personal Income: 1993 – 2002

State	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Alabama	\$17,901	\$18,739	\$19,527	\$20,138	\$20,899	\$21,904	\$22,668	\$23,694	\$24,477	\$25,096
Alaska	\$24,671	\$25,141	\$25,667	\$25,901	\$26,898	\$27,645	\$28,170	\$29,960	\$31,027	\$31,792
Arizona	\$18,424	\$19,320	\$20,050	\$20,883	\$21,892	\$23,118	\$23,939	\$25,361	\$25,878	\$26,157
Arkansas	\$16,769	\$17,441	\$18,141	\$18,934	\$19,628	\$20,479	\$21,087	\$22,000	\$22,750	\$23,417
California	\$22,833	\$23,348	\$24,339	\$25,373	\$26,521	\$28,240	\$29,712	\$32,363	\$32,655	\$32,898
Colorado	\$22,196	\$23,055	\$24,289	\$25,514	\$27,067	\$28,764	\$30,380	\$33,060	\$33,455	\$33,170
Connecticut	\$29,272	\$30,092	\$31,381	\$32,773	\$34,759	\$37,108	\$38,560	\$41,446	\$42,377	\$42,829
Delaware	\$23,590	\$24,218	\$24,992	\$26,140	\$26,807	\$28,662	\$29,312	\$31,092	\$32,166	\$32,307
Florida	\$21,320	\$21,905	\$22,942	\$23,909	\$24,869	\$26,161	\$26,978	\$28,366	\$29,048	\$29,559
Georgia	\$19,886	\$20,841	\$21,806	\$23,055	\$23,911	\$25,447	\$26,536	\$28,103	\$28,523	\$28,703
Hawaii	\$24,784	\$25,044	\$25,234	\$25,249	\$25,765	\$26,201	\$26,957	\$28,354	\$29,034	\$30,040
Idaho	\$18,133	\$18,687	\$19,425	\$20,093	\$20,534	\$21,612	\$22,656	\$23,987	\$24,506	\$25,042
Illinois	\$23,220	\$24,219	\$25,379	\$26,672	\$27,950	\$29,505	\$30,246	\$32,297	\$32,990	\$33,320
Indiana	\$19,982	\$20,978	\$21,623	\$22,501	\$23,418	\$24,891	\$25,543	\$27,010	\$27,522	\$28,233
Iowa	\$18,820	\$20,345	\$20,985	\$22,464	\$23,499	\$24,555	\$24,989	\$26,540	\$27,225	\$28,141
Kansas	\$20,438	\$21,258	\$21,771	\$22,977	\$24,182	\$25,519	\$26,134	\$27,439	\$28,432	\$28,838
Kentucky	\$17,722	\$18,389	\$19,056	\$19,957	\$20,979	\$22,118	\$22,702	\$24,258	\$24,878	\$25,657
Louisiana	\$17,587	\$18,602	\$19,314	\$19,978	\$20,874	\$21,948	\$22,205	\$23,185	\$24,454	\$25,370
Maine	\$18,749	\$19,453	\$20,142	\$21,163	\$22,134	\$23,404	\$24,218	\$25,732	\$26,853	\$27,804
Maryland	\$24,956	\$25,850	\$26,650	\$27,545	\$28,857	\$30,455	\$31,851	\$34,060	\$35,279	\$36,121
Massachusetts	\$25,453	\$26,559	\$27,689	\$29,166	\$30,773	\$32,714	\$34,360	\$38,034	\$38,864	\$39,044
Michigan	\$21,365	\$22,830	\$23,934	\$24,398	\$25,509	\$26,860	\$27,906	\$29,408	\$29,629	\$30,222
Minnesota	\$21,903	\$23,241	\$24,295	\$25,904	\$27,086	\$29,092	\$30,194	\$32,231	\$33,059	\$33,895
Mississippi	\$15,355	\$16,392	\$16,984	\$17,793	\$18,580	\$19,635	\$20,082	\$20,920	\$21,653	\$22,370
Missouri	\$20,166	\$21,094	\$21,873	\$22,828	\$23,926	\$25,171	\$25,857	\$27,493	\$28,221	\$28,841
Montana	\$17,968	\$17,995	\$18,592	\$19,173	\$19,920	\$21,225	\$21,621	\$22,961	\$24,044	\$24,906
Nebraska	\$20,001	\$20,942	\$21,903	\$23,670	\$24,148	\$25,541	\$26,569	\$27,781	\$28,861	\$29,544
Nevada	\$22,949	\$23,930	\$24,897	\$26,004	\$26,789	\$28,069	\$28,655	\$29,794	\$30,128	\$30,169
New Hampshire	\$22,376	\$23,622	\$24,750	\$25,733	\$27,238	\$29,187	\$30,377	\$33,266	\$33,969	\$34,276
New Jersey	\$26,849	\$27,553	\$28,851	\$30,266	\$31,720	\$33,640	\$34,547	\$37,734	\$38,625	\$39,567
New Mexico	\$16,999	\$17,636	\$18,435	\$18,964	\$19,641	\$20,551	\$20,865	\$21,788	\$23,081	\$23,908
New York	\$25,263	\$25,926	\$27,163	\$28,566	\$29,670	\$31,478	\$32,638	\$35,041	\$35,878	\$35,708
North Carolina	\$19,770	\$20,563	\$21,462	\$22,350	\$23,468	\$24,661	\$25,468	\$26,939	\$27,308	\$27,566
North Dakota	\$17,719	\$18,885	\$18,899	\$20,921	\$20,520	\$22,716	\$23,046	\$24,990	\$25,798	\$26,567
Ohio	\$20,940	\$21,982	\$22,790	\$23,496	\$24,772	\$25,921	\$26,849	\$28,130	\$28,699	\$29,317
Oklahoma	\$17,955	\$18,531	\$19,144	\$19,846	\$20,739	\$21,930	\$22,551	\$24,007	\$24,945	\$25,136
Oregon	\$20,232	\$21,187	\$22,362	\$23,270	\$24,385	\$25,446	\$26,247	\$27,836	\$28,222	\$28,533
Pennsylvania	\$22,032	\$22,632	\$23,439	\$24,467	\$25,635	\$27,008	\$27,916	\$29,759	\$30,752	\$31,663
Rhode Island	\$21,761	\$22,257	\$23,389	\$24,310	\$25,643	\$26,837	\$27,645	\$29,257	\$30,256	\$31,107
South Carolina	\$17,665	\$18,489	\$19,221	\$20,096	\$20,998	\$22,115	\$22,914	\$24,209	\$24,840	\$25,395
South Dakota	\$18,413	\$19,399	\$19,588	\$21,399	\$21,885	\$23,453	\$24,576	\$25,815	\$26,566	\$26,694
Tennessee	\$19,541	\$20,426	\$21,449	\$22,022	\$22,814	\$24,101	\$25,014	\$26,290	\$26,808	\$27,378
Texas	\$19,645	\$20,339	\$21,209	\$22,167	\$23,756	\$25,398	\$26,244	\$27,992	\$28,472	\$28,401
Utah	\$16,830	\$17,638	\$18,508	\$19,514	\$20,613	\$21,594	\$22,203	\$23,410	\$24,033	\$24,157
Vermont	\$19,657	\$20,379	\$21,135	\$22,019	\$23,026	\$24,547	\$25,757	\$27,465	\$28,756	\$29,464
Virginia	\$22,616	\$23,507	\$24,202	\$25,173	\$26,385	\$27,968	\$29,246	\$31,210	\$32,338	\$32,676
Washington	\$22,282	\$22,946	\$23,660	\$25,015	\$26,469	\$28,285	\$29,807	\$31,605	\$31,976	\$32,661
West Virginia	\$16,712	\$17,395	\$17,882	\$18,527	\$19,351	\$20,234	\$20,682	\$21,821	\$22,862	\$23,628
Wisconsin	\$20,519	\$21,538	\$22,365	\$23,301	\$24,481	\$26,004	\$26,926	\$28,389	\$29,196	\$29,996
Wyoming	\$20,113	\$20,726	\$21,216	\$21,732	\$23,360	\$24,714	\$26,294	\$27,941	\$29,587	\$30,494
Dist of Columbia	\$30,658	\$31,395	\$31,380	\$32,352	\$33,704	\$35,836	\$36,452	\$39,970	\$40,539	\$43,371
Puerto Rico	\$6,836	\$7,120	\$7,468	\$8,076	\$8,729	\$9,108	\$9,659	\$10,204	\$10,818	\$11,069
<b>50 States</b>	<b>\$21,518</b>	<b>\$22,320</b>	<b>\$23,237</b>	<b>\$24,252</b>	<b>\$25,395</b>	<b>\$26,874</b>	<b>\$27,862</b>	<b>\$29,739</b>	<b>\$30,393</b>	<b>\$30,808</b>

#### Data Source

U.S. Department of Commerce, Bureau of Economic Analysis.